



**ARIZONA DEPARTMENT OF EDUCATION
JOINT TECHNICAL EDUCATION DISTRICT (JTED)
SCHOOL YEAR 2011-2012**

Pursuant to ARS § 15-393.M

**Submitted by the Arizona Department of Education
Career and Technical Education Section**

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Ed. D, Associate Superintendent Highly Effective Schools Division**

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CD: Contains a folder for each question. Within each “question” folder there is a sub-folder containing: source data submitted by each JTED; data extracted from the ADE database that was used to respond to each question; other supporting documentation.

FOREWORD

Under the provisions of ARS §15-393.M the ADE CTE Section is required to review and analyze information submitted by each JTED and report back to the individual or governmental groups named per Arizona statute –

ARS §15-393.M- On or before December 31 of each year, each joint technical education district shall submit a detailed report to the career and technical education division of the department of education. The career and technical education division of the department of education shall collect, summarize and analyze the data submitted by the joint districts, shall submit an annual report that summarizes the data submitted by the joint districts to the governor, the speaker of the house of representatives, the president of the senate and the state board of education and shall submit a copy of this report to the secretary of state. The data submitted by each joint technical education district shall include the following:

1. The average daily membership of the joint district.
2. The program listings and program descriptions of programs offered by the joint district, including the course sequences for each program.
3. The costs associated with each program offered by the joint district.
4. The completion rate for each program offered by the joint district. For the purposes of this paragraph, "completion rate" means the completion rate for students who are designated as concentrators in that program by the department of education under the career and technology approved plan.
5. The graduation rate from the school district of residence of students who have completed a program in the joint district.
6. A detailed description of the career opportunities available to students after completion of the program offered by the joint district.
7. A detailed description of the career placement of students who have completed the program offered by the joint district.
8. Any other data deemed necessary by the department of education to carry out its duties under this subsection.

The following information is submitted in compliance with ARS §15-393.M by the ADE CTE Section. The information is summary in nature.

In the event that more detailed information is required, source data and/or supporting information are included on the enclosed CD with printed copies of this report. Additional information is included as a sub-folder within the digital versions of this report.

Background

Data directly collected by the Arizona Department of Education (ADE) Career and Technical Education (CTE) Section are required to meet federal and state grant reporting requirements and to facilitate state formula grant allocations. Average Daily Membership (ADM) is reported directly to the ADE School Finance Division. The CTE Section does not process Average Daily Membership (ADM) data. Information for this report is generated by Career and Technical Education Section staff. Data required for this report related to ADM is generated from reports on the ADE School Finance Website. Other JTED data, such as the programs/courses approved, are developed by the ADE CTE Section.

Joint Technical Education Districts

Arizona currently has 13 JTEDs. Most Arizona public school districts are JTED member districts, with the exception of several districts (such as the Phoenix UHSD, Yuma UHSD and some districts located in Santa Cruz County).

A listing of each JTED and its member districts (excluding elementary school districts) can be found on pages 5-6. Currently, 96 unified or union high school districts are JTED members. Voters in the Sierra Vista Unified School District voted in November 2012 to join the Cochise Technology District, as well as the Mammoth-San Manuel Unified School District voters to join Pima County JTED and voters in the Tolleson Union High School District voted to join the Western Maricopa Education Center starting in school year 2013-2014

Charter school students may participate in JTED courses, but charter schools cannot participate as JTED member districts.

Methodology

The ADE CTE Section utilizes data already reported by individual JTEDs and/or their member districts to answer as many of the ARS §15-393.M questions as possible to eliminate duplication and reduce reporting costs.

- Existing data were used to answer questions one, two, four, five, six and seven including data already being reported to the ADE for purposes of ADM reporting; the program and course approval procedures developed to comply with ARS §15-391.3; federal Carl D. Perkins Act performance measurement reporting requirements (graduation and placement); and information related to Arizona career opportunities.
- Question three was answered by utilizing JTED self-reported data on “costs associated with each program offered.” Costs are summarized by program.

Cost data at the program or course level have historically not been collected nor reported to the ADE. All 13 JTEDs operating in SY 2012 reported program cost information to the ADE CTE Section for purposes of this report.

In response to “the costs associated with each program” and the absence of a specific definition of “cost,” the ADE CTE Section continues to request course expenditure information based on existing Uniform System of Financial Reporting (USFR) and Chart of Account expenditure codes (salaries, benefits, supplies).

In October 2011, eleven JTED Business Managers met with an ADE representative in an effort to standardize the cost reporting method utilized to meet the reporting requirements (question 3) of

ARS § 15-393.M. Earlier efforts to standardize the cost reporting were less structured and therefore had limited success. The methodology to be used to report district technical assistance and administrative costs have yet to be standardized.

Any discussion of cost is complicated by the fact that member districts typically receive state and federal grants as well as utilize non-JTED local funding for costs such as instructor salaries supported by the member districts. State and federal grant information is provided on included CD.

However, the actual cost data reported varies from detailed to summary, depending on the source. For example, only the total cost information reported by each member district in response to the USFR requirements in Memorandum 219 (non-supplanting) is reported on each member district's submitted worksheet as an aggregate amount. The cost of allocating such cost by JTED CTE program would be difficult and costly.

Note, the report focuses on the 2012 school year, the first year to exclude 9th grade ADM counts from the calculation of JTED state aid.

- Historically, Question 4 asked for “the completion rate of each *course*” offered by a JTED. The reporting requirement now requests the “completion rate” by *program*.

For CTE federal reporting purposes, “program completion” is based on a student’s earning of a minimum of two or more Carnegie Units in a single program area, who also passed the end-of-program technical skill state assessment based on industry standards. Currently, assessments are available for 49 of the 70 Programs/Options, based on Arizona Labor Market Information and other research on emerging occupations. CTE Program Options have been approved by the Arizona State Board of Vocational and Technological Education. Additional assessments, based on industry standards, are being developed annually.

For those programs for which an assessment has not yet been developed, program completion is based on the issuing of course credits for the minimum number of Carnegie Units identified as required for the delivery of a program’s minimum competency content. The federal program completion rate reported reflects performance information only for those programs with a written assessment. The intent is to move toward identifying third party, industry assessments (Microsoft, CISCO, ASE Student Certification (auto)), state licensure assessments (cosmetology), etc., and developing assessments only for programs where none exist.

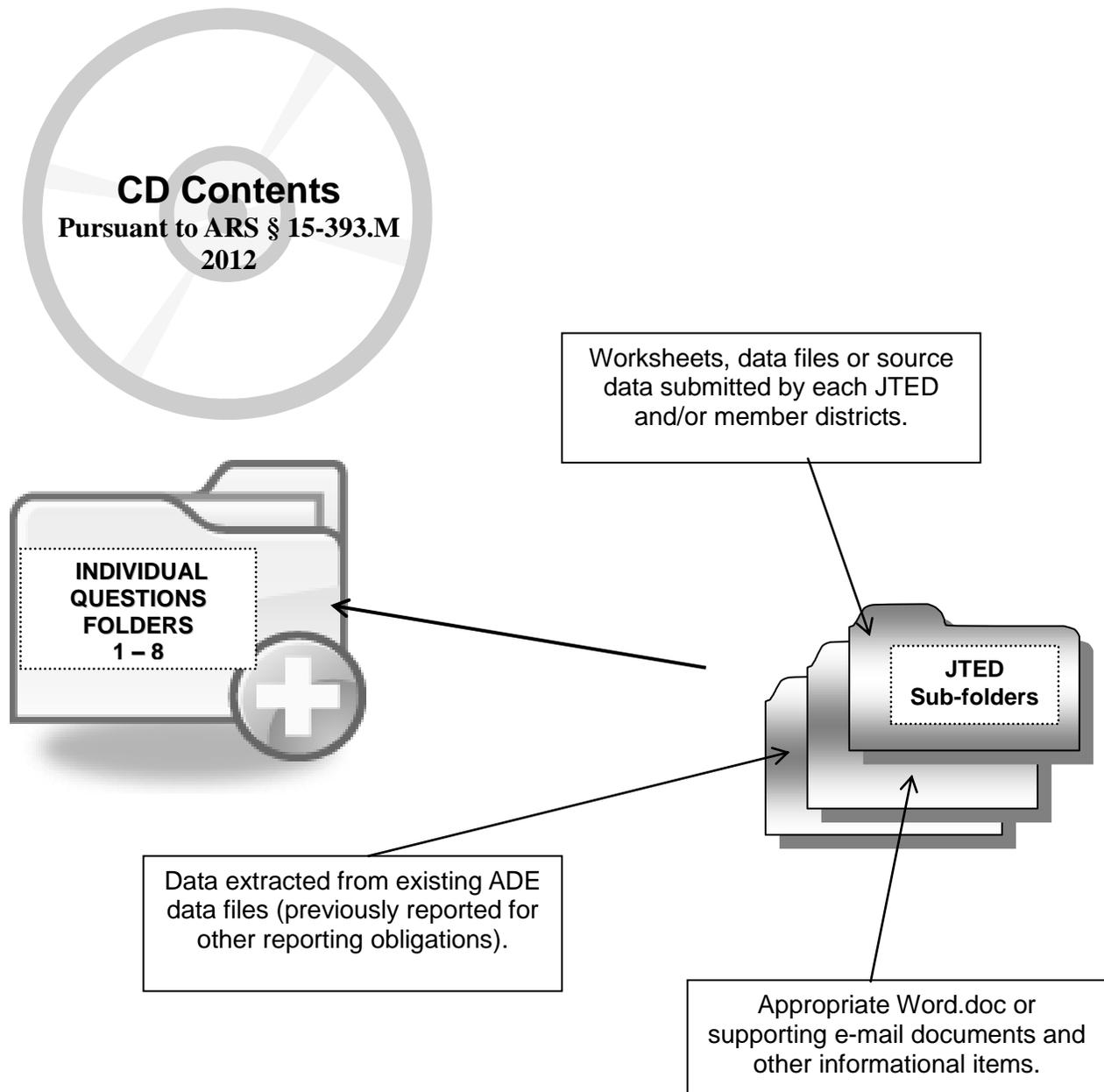
Report Layout

Each question has its own section. Each section will include:

- a restatement of the question
- a description of the methodology used to collect data used to respond to the question
- issues, challenges or problems encountered relative to answering or responding to the question
- results from any analysis conducted, relative to the question; and
- additional comments

CD

Detailed information is included on the enclosed CD. On the CD, there is a folder for each question. Within each “question” folder there is a sub-folder containing: source data submitted by each JTED; data extracted from the ADE database that was used to respond to each question; other supporting documentation.



ARIZONA JOINT TECHNICAL EDUCATION DISTRICTS
(JTED Member Districts- Unified and Union High School Districts*)

CAVIAT – Coconino Association for Vocations, Industry & Technology

- Flagstaff Unified SD
- Fredonia-Mocasin Unified SD
- Grand Canyon Unified SD
- Page Unified SD
- Williams Unified SD

CAVIT – Central Arizona Valley Institute of Technology

- Casa Grande Union HSD
- Coolidge Unified SD
- Florence Unified SD
- Maricopa Unified SD
- Santa Cruz Valley Union HSD

CTD – Cochise Technology District

- Benson Unified SD
- Bowie Unified SD
- Douglas Unified SD
- San Simon Unified SD
- Sierra Vista Unified SD
- St. David Unified SD
- Tombstone Unified SD
- Valley Union HSD
- Willcox Unified SD

CVIT – Cobre Valley Institute of Technology

- Globe Unified SD
- Hayden-Winkelman Unified SD
- Miami Unified SD
- San Carlos Unified SD
- Superior Unified SD

EVIT – East Valley Institute of Technology

- Apache Junction Unified SD
- Chandler Unified SD
- Fountain Hills Unified SD
- Gilbert Unified SD
- Higley Unified SD
- J.O. Combs Unified SD
- Mesa Unified SD
- Queen Creek Unified SD
- Scottsdale Unified SD
- Tempe Union HSD

GIFT – Gila Institute for Technology

- Duncan Unified SD
- Ft. Thomas Unified SD
- Morenci Unified SD
- Pima Unified SD
- Safford Unified SD
- Thatcher Unified SD

MIJTED – Mountain Institute Joint Technical Education District

- Ash Fork Unified SD
- Bagdad Unified SD
- Chino Valley Unified SD
- Humboldt Unified SD
- Mayer Unified SD
- Prescott Unified SD
- Seligman Unified SD

NATIVE – Northeast Arizona Technological Institute of Vocational Education

- Chinle Unified SD
- Ganado Unified SD
- Kayenta Unified SD
- Pinon Unified SD
- Red Mesa Unified SD
- Sanders Unified SD
- Tuba City Unified SD
- Window Rock Unified SD

NAVIT– Northern Arizona Vocational Institute of Technology

- Blue Ridge Unified SD
- Heber-Overgaard Unified SD
- Holbrook Unified SD
- Joseph City Unified SD
- Payson Unified SD
- Round Valley Unified SD
- Show Low Unified SD
- Snowflake Unified SD
- St. Johns Unified SD
- Whiteriver Unified SD
- Winslow Unified SD

Pima County JTED

- Ajo Unified SD
- Amphitheater Unified SD
- Catalina Foothills Unified SD
- Flowing Wells Unified SD
- Indian Oasis-Baboquivari Unified SD
- Mammoth-San Manuel Unified SD
- Marana Unified SD
- Sahuarita Unified SD
- Santa Cruz Valley Unified SD
- Sunnyside Unified SD
- Tanque Verde Unified SD
- Tucson Unified SD
- Vail Unified SD

VACTE – Valley Academy of Career and Technology Education

- Camp Verde Unified SD
- Mingus Union HSD
- Sedona-Oak Creek Unified SD

WAVE – Western Arizona Vocational Education

- Colorado River Union HSD
- Lake Havasu Unified SD
- Kingman Unified SD
- Parker Unified SD

West-MEC – Western Maricopa Education Center

- Agua Fria Union HSD
- Buckeye Union HSD
- Deer Valley Unified SD
- Dysart Unified SD
- Glendale Union HSD
- Paradise Valley Unified SD
- Peoria Unified SD
- Saddle Mountain Unified SD
- Tolleson Union HSD
- Wickenburg Unified SD

* Some JTED member districts include elementary districts. Typically, this includes elementary districts located within the geographical boundaries of a JTED member union high school district.

QUESTION 1: The Average Daily Membership of the Joint District

ARS § 15-393.M.1 “The Average Daily Membership of the Joint District”

Methodology Used

The methodology used to provide information regarding the Average Daily Membership (ADM) of the Joint Technical Education Districts (JTEDs) is to compare the final 2010-2011 JTED ADM counts with final 2011-2012 JTED ADM counts to determine if the ADM for the districts has increased or decreased. This data, which is collected through SAIS, was retrieved from the Arizona Department of Education’s School Finance Website.

JTED ADM Data

The JTED final ADM figures for both school years are included on pages 9-14.

Analysis

During school year 2010-2011, the thirteen district’s total JTED ADM was 26,150. During the school year 2011-2012, the total JTED ADM decreased significantly to 19,245. In a large part, this is certainly due to the fact that ninth graders are no longer included in the JTED ADM counts and explains the over 25% decrease overall in ADM for the JTEDs. Even though ninth graders are no longer counted for funding purposes, the JTEDs were instructed by the School Finance area of the ADE to report the ADM for those students. Most of the JTEDs, with some notable exceptions, did so.

The following is an overview of JTED 2011 final ADM of September 28, 2011, the JTED 2012 final ADM as of August 2, 2012, and the reported grade nine non-fundable ADM.

Joint Technical Education District	Final 2010-2011 ADM	Final 2011-2012 ADM	2012 Non -fundable ADM Grade 9
Coconino (CAVIAT)	647.2500	450.2125	185.730
Central Arizona Valley (CAVIT)	970.0700	688.385	109.058
Cobre Valley (CVIT)	234.7925	174.515	Not Reported
Cochise Technology District (CTD)	571.2775	399.3175	152.090
East Valley Institute (EVIT)	8,119.2425	6,840.9024	1,142.77
Gila Institute for Technology (GIFT)	380.5599	300.1300	Not Reported
Mountain Institute (MIJTED)	556.66	349.3175	231.733
Northeast Arizona (NATIVE)	794.4825	572.4650	0.338
Northern Arizona (NAVIT)	1,125.1125	819.2375	301.755
Pima County JTED (PCJTED)	4,892.5405	3,215.945	Not Reported
Valley Academy (VACTE)	362.415	239.18	81.365
Western Arizona (WAVE)	849.2975	559.4350	224.150
Western Maricopa (West-MEC)	6,646.7775	4,635.9275	1,859.235
TOTALS	26,150.48	19,244.96	4,288.23

In examining the JTED member districts' data for SY 2010-2011 and SY 2011-2012 it is evident that the ADM for SY 2011-2012 appears to have decreased even taking into consideration the fact that ninth graders are no longer counted for funding purposes. Of course the result of not all JTEDs reporting their grade nine non-fundable ADM makes it impossible to obtain a comprehensive picture of the effect that not counting ninth graders has had. If the ninth grade counts submitted for SY2010-2011 are compared to the figures garnered by ADE's School Finance Section for ninth grade ADM in SY2011-SY2012, it will be noted that the majority of the JTED districts reporting ninth grade counts show a decrease in the ninth grade ADM between the two school years.

Joint Technical Education District	Grade 9 2011 Fundable ADM	Grade 9 2012 Non -fundable ADM
Coconino (CAVIAT)	185.9575	185.730
Central Arizona Valley (CAVIT)	171.60	109.058
Cobre Valley (CVIT)	36.145	Not Reported
Cochise Technology District (CTD)	169.2475	152.090
East Valley Institute (EVIT)	1,835.4749	1,142.77
Gila Institute for Technology (GIFT)	93.8850	Not Reported
Mountain Institute (MIJTED)	250.34	231.733
Northeast Arizona (NATIVE)	155.7875	0.338
Northern Arizona (NAVIT)	298.9600	301.755
Pima County JTED (PCJTED)	1,695.531	Not Reported
Valley Academy (VACTE)	126.13	81.365
Western Arizona (WAVE)	247.4075	224.150
Western Maricopa (West-MEC)	1,923.865	1,859.235
TOTALS	7190.3304	4,288.23

NAVIT is the only district that has reported a gain in ninth grade ADM. The other districts reporting all show a decrease. There is a distinct possibility that because ninth graders are no longer funded, the data is not as carefully collected, as evident in the contrast between the yearly figures for NATIVE, and the fact that several districts reported no ninth grade ADM at all.

It is expected that next year the data will be more conclusive, as it will be the second year of reporting ADM without the ninth graders. The comparison between the school years at that time should give a much better picture of whether the JTED ADM increased or decreased for SY 2012-2013. The Arizona Department of Education will reiterate to the JTED districts that they must continue reporting the ADM for ninth graders as this information is important for statistical and historical purposes.

Recommendations

It is recommended that the Department of Education reiterate to the JTEDs that it is necessary to continue to report their ninth grade ADM and Absences. This reporting will allow the continuation of yearly analysis of the JTED's ADM and enrollment reporting in order to provide information related to JTED costs and to bolster accountability.

Source: School Finance On-Line ADMS Reports
As of August 2, 2012

JTED Final ADM for SY 2011 - 2012

CTDS	JTED & Member Districts	Final 2012 ADM (SY 2011-2012)				Totals
		9th	10th	11th	12th	
020801000 Cochise Technology District (CTD)						
020801001	Cochise Technology School	0	0	3	5.1775	8.1775
020801002	Willcox High School	0	18.9775	10.4375	11.7725	41.1875
020801003	Valley Union High School	0	6.2	5.85	9.2325	21.2825
020801004	Tombstone High School	0	18.065	9.7575	8.58	36.4025
020801005	St. David High School	0	10.22	6.14	7.195	23.555
020801006	San Simon High School	0	0.97	1.8175	1.9275	4.715
020801007	Bowie High School	0	1.505	0.595	0.43	2.53
020801008	Benson High School	0	23.4025	22.2125	20.3525	65.9675
020801009	Douglas High School	0	70.8625	65.3075	59.33	195.5
	CTD Total	0.0000	150.2025	125.1175	123.9975	399.3175
030801000 Coconino Assoc for Vocation Industry and Technology (CAVIAT)						
030801001	Grand Canyon High School	0	0.005	1.8725	3.78	5.6575
030801002	Page High School	0	54.015	36.975	43.62	134.61
030801003	Fredonia High School	0	3.4175	3.2475	3.13	9.795
030801004	Williams High School	0	4.925	6.835	6.155	17.915
030801005	Coconino High School	0	55.975	41.045	27.5825	124.6025
030801006	Flagstaff High School	0	48.535	40.3675	32.465	121.3675
030801007	Sinagua High School	0	0	0	0	0
030801009	CC Central Campus	0	0	18.2675	17.9975	36.265
030801010	Page Central Campus	0	0	0	0	0
	CAVIAT Total	0.0000	166.8725	148.6100	134.7300	450.2125
050802000 Gila Institute for Technology (GIFT)						
050802001	Gila Institute for Technology	0	0.7725	57.45	44.22	102.4425
050802002	Ft. Thomas High School	0	7.4525	3.35	3.9225	14.725
050802003	Pima High School	0	9.8425	8.2625	8.2375	26.3425
050802004	Safford High School	0	41.4	21.11	9.81	72.32
050802005	Thatcher High School	0	16.8525	6.2075	15.1125	38.1725
050802006	Mt. Graham High School	0	1.9975	5.4575	4.54	11.995
050802007	Duncan High School	0	5.3325	4.1225	4.0625	13.5175
050802008	Morenci High School	0	11.59	4.725	4.3	20.615
	GIFT Total	0.0000	95.2400	110.685	94.205	300.1300

Source: School Finance On-Line ADMS Reports
As of August 2, 2012

JTED Final ADM for SY 2011 - 2012

CTDS	JTED & Member Districts	Final 2012 ADM (SY 2011-2012)				Totals
		9th	10th	11th	12th	
070801000	East Valley Institute of Technology (EVIT)					
070801001	EVIT Main	0	25.4225	767.3775	1010.67	1803.47
070801003	EVIT Chandler	0	98.44	89.93	66.83	255.2
070801005	EVIT Apache Junction	0	57.7	26.115	14.83	98.645
070801007	EVIT Fountain Hills Voc Center	0	28.0175	21.9375	21.39	71.345
070801009	EVIT Higley	0	28.6225	22.2675	14.2225	65.1125
070801010	EVIT Hamilton	0	85.82	93.9725	54.5375	234.33
070801011	EVIT Basha	0	63.9375	63.5125	38.2025	165.6525
070801012	EVIT Queen Creek	0	46.3425	35.31	27.5925	109.245
070801013	EVIT East Campus	0	0.78	94.425	69.2825	164.4875
070801091	EVIT Tempe High School	0	21.265	26.1675	20.9075	68.34
070801092	EVIT McClintock High School	0	33.4375	57.8425	49.9725	141.2525
070801093	EVIT Marcos De Niza High School	0	39.6125	62.17	62.64	164.4225
070801094	EVIT Corona Del Sol High School	0	35.635	60.945	78.0525	174.6325
070801095	EVIT Mountain Pointe High School	0	59.4025	99.7725	100.76	259.935
070801096	EVIT Desert Vista High School	0	69.2525	104.25	97.3975	270.9
070801097	EVIT Compadre High School	0	0.6225	1.4075	5.3775	7.4075
070801210	EVIT Gilbert High School	0	73.475	78.76	56.6425	208.8775
070801211	EVIT Highland High School	0	90.805	78.1675	47.6175	216.59
070801212	EVIT Mesquite High School	0	58.3175	50.1525	32.53	141
070801213	EVIT Desert Ridge High School	0	77.5025	69.77	38.335	185.6075
070801214	EVIT Campo Verde High School	0	63.2675	63.9425	28.9375	156.1475
070801251	EVIT Mesa Jr. High	0	0	0	0	0
070801252	EVIT Carson Jr. High	0	0	0	0	0
070801253	EVIT Kino Jr. High	0	0	0	0	0
070801254	EVIT Fremont Jr. High	0	0	0	0	0
070801255	EVIT Powell Jr. High	0	0	0	0	0
070801256	EVIT Poston Jr. High	0	0	0	0	0
070801257	EVIT Rhodes Jr. High	0	0	0	0	0
070801258	EVIT Taylor Jr. High	0	0	0	0	0
070801259	EVIT Hendrix Jr. High	0	0	0	0	0
070801260	EVIT Shepherd Jr. High	0	0	0	0	0
070801261	EVIT Brimhall Jr. High	0	0	0	0	0
070801262	EVIT Stapley Jr. High	0	0	0	0	0
070801263	EVIT Smith Jr. High	0	0	0	0	0
070801271	EVIT Mesa High School	0	115.33	62.9825	66.365	244.6775
070801272	EVIT Westwood High School	0	93.3975	48.7525	42.435	184.585
070801273	EVIT Mountain View High School	0	101.5925	49.2875	46.995	197.875
070801274	EVIT Dobson High School	0	88.9525	53.78	39.2025	181.935
070801275	EVIT Red Mountain High School	0	97.795	65.99	42.395	206.18
070801276	EVIT Skyline High School	0	81.1175	39.44	51.3975	171.955
070801292	EVIT Arcadia High School	0	37.6375	31.545	37.145	106.3275
070801293	EVIT Coronado High School	0	14.5225	14.225	21.8825	50.63
070801294	EVIT Saguario High School	0	14.235	13.885	23.395	51.515
070801295	EVIT Chaparral High School	0	47.11	36.1225	24.31	107.5425
070801296	EVIT Desert Mountain High School	0	36.61	41.49	42.5	120.6
070801297	EVIT Perry	0	53.7875	47.3175	28.6324	129.7374
070801298	EVIT Williams Field	0	44.6425	21.62	8.14	74.4025
070801299	EVIT Combs High School	0	22.81	18.065	9.465	50.34
	EVIT Total	0.0000	1907.2175	2512.6975	2420.9874	6840.9024

Source: School Finance On-Line ADMS Reports
As of August 2, 2012

JTED Final ADM for SY 2011 - 2012

CTDS	JTED & Member Districts	Final 2012 ADM (SY 2011-2012)				Totals
		9th	10th	11th	12th	
070802000	Western Maricopa Education Center (West MEC)					
070802201	Centennial High School	0	49.3625	71.6825	39.775	160.82
070802202	Ironwood High School	0	65.3325	59.45	26.7975	151.58
070802203	Cactus High School	0	31.7775	40.15	31.8525	103.78
070802204	Peoria High School	0	63.8475	48.18	31.815	143.8425
070802205	Sunrise Mountain High School	0	37.13	46.795	17.2925	101.2175
070802206	Dysart High School	0	39.12	39.855	24.565	103.54
070802207	Willow Canyon High School	0	47.605	48	18.945	114.55
070802208	Millennium High School	0	22.2625	46.6575	46.995	115.915
070802209	Desert Edge High School	0	12.195	29.725	30.595	72.515
070802210	Agua Fria High School	0	15.5675	30.595	30.175	76.3375
070802211	Buckeye Union High School	0	24.9825	30.4225	29.6775	85.0825
070802212	Estrella Foothills High School	0	28.985	20.405	24.5875	73.9775
070802213	Tonopah Valley High School	0	11.0925	8.655	6.7125	26.46
070802215	Raymond S. Kellis	0	48.445	47.7525	32.945	129.1425
070802217	Washington High School	0	42.69	39.81	40.08	122.58
070802218	Thunderbird High School	0	30.255	26.23	38.325	94.81
070802219	Sunnyslope High School	0	24.53	24.59	37.15	86.27
070802220	Moon Valley High School	0	35.645	35.885	57.57	129.1
070802221	Independence High School	0	38.1125	35.55	44.695	118.3575
070802222	Greenway High School	0	30.2475	29.24	38.015	97.5025
070802223	Glendale High School	0	46.455	36.8775	45.8575	129.19
070802224	Cortez High School	0	17.73	14.2375	20.0375	52.005
070802225	Apollo High School	0	37.93	38.935	53.085	129.95
070802226	Boulder Creek High School	0	44.3175	39.6025	13.02	96.94
070802227	Barry Goldwater High School	0	34.3075	40.0225	33.2275	107.5575
070802228	Deer Valley High School	0	36.5525	29.7525	17.7	84.005
070802229	Mountain Ridge High School	0	45.3175	40.63	17.5175	103.465
070802230	Sandra Day O'Connor High School	0	51.6575	49.3375	18.06	119.055
070802231	Wickenburg High School	0	22.7175	18.1525	15.5375	56.4075
070802234	Western Maricopa Education Center	0	0.755	254.1825	257.575	512.5125
070802235	Liberty High School	0	59.265	53.995	20.8475	134.1075
070802236	Verrado High School	0	29.88	40.21	23.9275	94.0175
070802237	Paradise Valley High School	0	43.875	47.4	25.225	116.5
070802238	North Canyon High School	0	72.5375	71.975	41.85	186.3625
070802239	Horizon High School	0	33.9875	38.04	21.525	93.5525
070802240	Pinnacle High School	0	58.14	66.855	29.99	154.985
070802241	Shadow Mountain High School	0	31.4575	32.195	17.72	81.3725
070802242	Valley Vista High School	0	67.2175	61.6275	21.6825	150.5275
070802243	Youngker High School	0	24.8975	19.675	18.9925	63.565
070802245	Shadow Ridge High School	0	27.97	26.0425	8.4575	62.47
	West MEC Total	0.0000	1486.1525	1779.375	1370.4000	4635.9275

Source: School Finance On-Line ADMS Reports
As of August 2, 2012

JTED Final ADM for SY 2011 - 2012

CTDS	JTED & Member Districts	Final 2012 ADM (SY 2011-2012)				Totals
		9th	10th	11th	12th	
Western Arizona Vocational Education (WAVE)						
080850001	Lake Havasu High School	0	68.2075	46.125	35.425	149.7575
080850002	Mohave High School	0	59.3900	40.4525	18.6375	118.4800
080850003	River Valley High School	0	16.9950	18.16	16.9325	52.0875
080850004	Kingman High School	0	77.7025	63.6325	44.9750	186.3100
080850005	Parker High School	0	11.1375	8.865	12.5050	32.5075
080850007	WAVE Central Campus	0	0	0	2.46	2.46
080850008	Mohave Community College	0	0.4075	11.185	6.2400	17.8325
	WAVE Total	0.0000	233.8400	188.42	137.1750	559.4350
Northern Arizona Vocational Institute of Technology (NAVIT)						
090835201	NAVIT Snowflake	0	22.58	19.4825	13.62	55.6825
090835202	NAVIT Show Low	0	32.9325	30.465	23.0575	86.455
090835203	NAVIT Blue Ridge	0	21.55	18.92	18.7	59.17
090835204	NAVIT Round Valley	0	13.24	8.9275	4.77	26.9375
090835205	NAVIT Mogollon (Heber-Overgaard)	0	8.8375	5.395	3.9825	18.215
090835206	NAVIT Central Campus	0	0	151.825	137.8925	289.7175
090835207	NAVIT St. Johns	0	10.4825	10.1825	7.805	28.47
090835208	NAVIT Holbrook	0	33.7425	20.2	17.8375	71.78
090835209	NAVIT Joseph City	0	3.0475	5.345	2.605	10.9975
090835210	NAVIT Winslow	0	32.785	19.0775	25.3725	77.235
090835211	NAVIT Alchesay	0	11.2375	9.0075	7.7925	28.0375
090835225	NAVIT Payson	0	32.4975	21.8075	12.235	66.54
	NAVIT Total	0.0000	222.9325	320.635	275.6700	819.2375
090836000 Northeast Arizona Technological Institute of Vocational Education (NATIVE)						
090836101	Monument Valley High School	0	26.615	34.3225	32.2325	93.17
090836102	Pinon High School	0	20.65	20.8925	12.7525	54.295
090836103	Chinle High School	0	65.385	46.9775	39.18	151.5425
090836104	Ganado High School	0	23.315	20.0375	14.32	57.6725
090836105	Red Mesa High School	0	7.57	6.34	8.91	22.82
090836106	Window Rock High School	0	28.1875	29.9675	33.25	91.405
090836107	Sanders Valley High School	0	12.4175	12.2375	15.6675	40.3225
090836108	Tuba City High School	0	22.5775	20.6925	17.9675	61.2375
	NATIVE Total	0.0000	206.7175	191.4675	174.28	572.4650

Source: School Finance On-Line ADMS Reports
As of August 2, 2012

JTED Final ADM for SY 2011 - 2012

CTDS	JTED & Member Districts	Final 2012 ADM (SY 2011-2012)				Totals
		9th	10th	11th	12th	
100811000	Pima County JTED - Pima County Joint Technological Education District					
100811201	Catalina High School	0	22.6775	29.7325	24.0375	76.4475
100811202	Cholla High School	0	56.0775	49.1125	24.8375	130.0275
100811203	Howenstine High School	0	2.71	4.94	3.32	10.97
100811204	Palo Verde High School	0	30.05	27.5775	14.7375	72.365
100811205	Pueblo High School	0	69.4125	54.86	18.6625	142.935
100811206	Rincon High School	0	22.27	26.7075	15.265	64.2425
100811207	University High School	0	5.405	3.8325	5.9625	15.2
100811208	Sabino High School	0	25.3475	25.86	11.425	62.6325
100811209	Sahuaro High School	0	32.9875	50.5325	22.56	106.08
100811210	Santa Rita High School	0	44.4875	25.5625	10.975	81.025
100811211	Tucson High School	0	127.375	100.61	42.8675	270.8525
100811212	Project More	0	4.5	9.98	11.5	25.98
100811213	Aztec Middle College East	0	0.1775	0.2875	3.4125	3.8775
100811214	Aztec Middle College NW	0	0	0.6575	2.695	3.3525
100811215	Aztec Middle College Desert Vista	0	0	0.4225	1.935	2.3575
100811216	Aztec Middle College	0	0	0.44	1.95	2.39
100811217	Walden Grove High School	0	16.9725	0	0	16.9725
100811220	Amphitheater High School	0	25.7575	20.4	21.215	67.3725
100811221	Canyon Del Oro High School	0	45.2675	49.4975	34.52	129.285
100811222	Ironwood Ridge High School	0	33.83	31.0225	13.125	77.9775
100811230	Ajo High School	0	4.25	3.3025	3.1875	10.74
100811235	Pima County JTED Annex	0	14.3875	3.9875	1.7825	20.1575
100811240	Catalina Foothills High School	0	71.2425	52.4475	68.6775	192.3675
100811244	Flowing Wells High School	0	9.53	7.01	5.8725	22.4125
100811245	Pima County JTED Cosmotology	0	0	43.5	58.0875	101.5875
100811246	Camino Seco High School	0	1.555	16.885	37.2375	55.6775
100811247	Santa Rita High School	0	20.82	16.6875	11.37	48.8775
100811248	Indian Oasis High School	0	3.665	1.5925	1.08	6.3375
100811249	Empire High School	0	0	15.1125	10.4575	25.57
100811250	Flowing Wells High School	0	44.335	35.72	38.57	118.625
100811255	Pima County JTED NW Campus	0	21.5575	19.1375	10.0025	50.6975
100811260	Baboquivari High School	0	0	0	0	0
100811265	Rio Rico High School	0	29.4925	30.5	37.05	97.0425
100811270	Marana High School	0	81.935	63.78	43.3475	189.0625
100811271	Mountain View High School	0	61.31	68.3525	26.8725	156.535
100811285	Sahuarita High School	0	17.8075	34.135	16.67	68.6125
100811281	Pima JTED Central Campus	0	0.54	16.54	52.375	69.455
100811287	Cienega High School	0	77.815	40.32	44.805	162.94
100811288	Empire High School	0	33.205	23.2175	18	74.4225
100811289	Vail High School	0	9.5175	6.2	7.325	23.0425
100811290	Desert View High School	0	66.755	55.005	51.915	173.675
100811291	Sunnyside High School	0	65.8125	39.465	52.065	157.3425
100811299	Tanque Verde High School	0	9.7675	12.365	6.29	28.4225
	Pima County JTED - Total	0	1210.605	1117.2975	888.0425	3215.945

Source: School Finance On-Line ADMS Reports
As of August 2, 2012

JTED Final ADM for SY 2011 - 2012

CTDS	JTED & Member Districts	Final 2012 ADM (SY 2011-2012)				Totals
		9th	10th	11th	12th	
110801000	Central Arizona Valley Institute of Technology (CAVIT)					
110801001	Central Arizona Valley Institute of Technology	0	0	116.3475	83.255	199.6025
110801002	Santa Cruz Valley Union High School	0	10.7575	1.7275	6.59	19.075
110801003	Maricopa Unified	0	53.6525	46.77	31.84	132.2625
110801004	Florence Unified	0	13.865	11.255	12.1175	37.2375
110801005	Coolidge High School	0	24.885	13.135	12.2875	50.3075
110801008	Casa Grande Union High School	0	33.8025	28.34	33.055	95.1975
110801007	San Tan Foothills High School	0	13.52	8.0225	9.52	31.0625
110801009	Poston Butte High School	0	18.2025	13.3575	16.0875	47.6475
110801010	Vista Grande High School	0	37.8375	20.2025	17.9525	75.9925
	CAVIT Total	0	206.5225	259.1575	222.705	688.385
110802000	Cobre Valley Institute of Technology District (CVIT)					
110802002	Miami High School	0	14.085	10.545	9.205	33.835
110802003	Hayden High School	0	1	1.47	0.875	3.345
110802004	Superior High School	0	5.9075	5.62	8.9625	20.49
110802005	San Carlos High School	0	4.7075	17.46	10.5325	32.7
110802006	Globe High School	0	21.2	6.295	11.635	39.13
110802007	CVIT - Central Programs	0	3.585	23.525	17.905	45.015
	CVIT Total	0	50.485	64.915	59.115	174.515
130801000	Valley Academy for Career and Technology Education(VACTE)					
130801001	Mingus Union High School	0	49.445	31.0125	25.5675	106.025
130801002	Camp Verde Unified School District	0	26.2025	19.4175	19.6525	65.2725
130801003	Sedona-Oak Creek Joint Unified School District	0	24.0375	19.7825	18.9475	62.7675
130801006	VACTE	0	0	0	5.115	5.115
	VACTE Total	0	99.685	70.2125	69.2825	239.18
130802000	Mountain Institute Joint Technological Education District (MIJTED)					
130802001	Bradshaw Mountain High School	0	19.5225	52.255	43.3	115.0775
130802002	Ashfork High School	0	0	2.4475	2.2175	4.665
130802003	Bagdad High School	0	6.9975	7.38	2.9125	17.29
130802004	Chino Valley High School	0	24.435	19.56	6.4	50.395
130802005	Prescott High School	0	29.535	24.68	12.805	67.02
130802006	Seligman High School	0	1.0875	1.5875	0.8225	3.4975
130802007	Mayer High School	0	9.3875	5.7775	3.9125	19.0775
130802008	Mountain Institute Central Campus	0	6.2725	31.75	34.2725	72.295
	MIJTED Total	0	97.2375	145.4375	106.6425	349.3175
	JTED TOTAL	0.0000	6133.7100	7034.0275	6077.2324	19244.9699

QUESTION 2: JTED Program and Course Listings & Descriptions

ARS § 15-393.M.1 “The program and course listings and course descriptions of courses offered by joint districts.”

Methodology Used

Criteria for course approval were enacted with HB2700, which became law in August 2006 and amended with HB 2128 April 2010. HB2700, HB2128 and subsequent ARS 15-391 and 393 require that, after December 31, 2006, JTEDs submit to the Arizona Department of Education Career and Technical Education (ADE CTE) Section the programs and sequence of courses for the following school year and allow 120 days, after the submission of all required documents, for ADE CTE to review and notify the JTEDs of their status.

During the fall of 2006, processes were developed for approval, non-approval, or conditional approval. During spring 2007, 2008, 2009, 2010 and again spring of 2011, the processes were conducted. However, a number of programs and course sequences had to be reviewed on-site by the State Program Supervisor before final approval or disapproval could be determined. Several of these programs were placed in a conditional approval status until either on-site reviews were completed or deficiencies identified in the written review were either rectified or deemed as unacceptable.

Below, the criteria, the process and the results of the SY 2011-2012 are identified. The appendix (A, C, D, E, F and G) provides additional exhibits of the criteria, process and results.

2011-2012 JTED Program/Course Approval Process

ARS 15-391.3 defined courses that are to be considered “JTED courses” by outlining the required components of such courses. Two crucial components outlined in the statute are: the course must “meet the standards of a career preparatory vocational program as determined by the career and technical education division of the department of education” and “is approved by the career and technical division of the department of education.” In compliance with ARS 15-391 and 393, the ADE CTE section developed a process by which to review and approve “JTED courses.” The process is as follows:

- A 2011-2012 Application for Program/Course Approval was developed (see appendix A) with components listed below:
 - Cover page
Requirements:
 - JTED contact information;
 - superintendent signature assuring the JTED will comply with all reporting requirements as identified by ADE and cited in HB2700 and related statutes including:
 - assurance that the course is certified by the joint technical education district governing board as having met all the requirements in article 15-391;
 - assurance that an IGA or written contract with participating educational institutions will be written, approved and signed by the local governing board and the JTED governing board;
 - assurance that the IGA will be submitted to the JLBC for review
 - a list of all participating educational institutions for which the IGA or contract will be completed.
 - Program and Course Information sheet

Requirements:

- be submitted for each program indicating the program Classification of Instructional Program (CIP) code;
 - identify the industry-validated standards used for instruction;
 - indicate the program will lead to industry-validated assessment or certification;
 - list each course taught in the program and each site where the course is taught; and
 - indicate that the instructor holds appropriate certification to teach the course.
- Specialized Equipment and Instructional Materials List
 - lists specialized equipment or instructional materials required to teach each course within the program.
 - Program/Course Approval Check List
 - addresses each required element of a JTED program and course(s); and
 - allows for the courses within the program to be “approved,” “conditionally approved” or “not approved.” The “conditionally approved” status was established to provide adequate time for ADE CTE program State Supervisors to visit and evaluate programs by examining each course within the program before granting permanent approval status.
- As required in ARS 15-391.3, all JTED programs/courses had to be submitted to the ADE.
 - The ADE received 33 new program submissions consisting of 98 courses in the format described above prior to the 2011-2012 deadline.
 - CTE State Supervisors, each with expertise within their content area, reviewed each program submission and each course within the program. State Supervisors granted approval, conditional approval or did not approve in accordance with the elements of a CTE Career Preparation Program and the legislative requirements outlined in ARS 15-391 & 393. A CTE Career Preparation Program is a coherent sequence of instruction determined through the use of state labor market data to be a high-skill, high-wage and/or high-demand career opportunity for students that delivers a set of prescribed state standards (see appendix B for CTE Program List Ranked by formula). The JTEDs submit their applications listing the program and each course contained within the program’s sequence of instruction. (See appendix C for CTE program sequence, program and course descriptions)
 - Some programs and courses were granted “conditional approval” and the action needed to receive full approval was described on the Approval Checklist.
 - In compliance with the 120 days allowed for program review, on April 30, 2011 a log with each course submitted and a letter explaining the approval process and the status was sent to each JTED (see appendix D and E).
 - Follow up and technical assistance continued during the fall 2010 semester and into spring semester 2011. However, due the amount of time it takes state staff to conduct on-site reviews for each course, as well as the time it takes for a school to implement the changes identified during the reviews, a number of programs and courses are still in “conditionally approved” status. State staff continues to work with programs to move the courses with “conditional approval” status to either an “approved status” or “not approved status.” (See appendix F) CTE State Supervisors work with both the program instructors and JTED superintendents to offer technical assistance including on-site assistance in addressing deficiencies in the program. This technical assistance time is crucial to ensure that courses meet the requirements of the legislation prior to receiving an approved status, since there is no provision for further remediation after programs are approved. If the program is unable to bring courses into compliance with

the legislative requirements, the program (including the courses within the sequence of instruction) is designated “unapproved” and is not eligible for funding.

- An appeals process was established and approved by the Arizona State Board of Career and Technological Education, for JTEDs that would like consideration for their unapproved courses. To date, no courses have been appealed. (See appendix G)

Total number of JTED Program Applications Received
Approval Status as of January 18, 2012

Following is the number of program applications received from each of the thirteen JTEDs and the approval status as of January 18, 2012.

2011-2012 JTED program application submissions and approval status:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	4	5	0	9
CAVIT	2	5	0	7
CTD	0	0	0	0
CVIT	0	2	0	2
EVIT	0	4	0	4
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	1	1	2
PIMA	1	1	0	2
VACTE	0	0	0	0
WAVE	1	4	0	5
WEST-MEC	0	2	0	2
TOTAL	8	24	1	33

A program must have a minimum of two courses in the instructional sequence. However, many programs consist of three or more courses in the instructional sequence. In order to make comparisons of JTED program offerings in 2011-2012 and courses submitted, approved, conditionally approved, and unapproved in previous years, an additional chart illustrating the courses is included below.

2011-2012 new JTED course submissions and approval status:

JTED	Number of Courses Approved	Number of Courses Conditionally Approved	Number of Courses Unapproved	Total Number of Courses Requested
CAVIAT	21	18	0	39
CAVIT	5	12	0	17
CTD	0	0	0	0
CVIT	0	8	0	8
EVIT	0	9	0	9
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	3	2	5
PIMA	2	3	0	5
VACTE	0	0	0	0
WAVE	3	5	0	8
WEST-MEC	0	7	0	7
TOTAL	31	65	2	98

The data below represents past years for which JTED Reports have been submitted to the Legislature. The total numbers below vary from previous years' reports due primarily to two reasons. The first is the removal of duplicated courses submitted and secondly, the revision of ARS 15-391(5) (d) "Requires work-based learning components....." Previously, internships were not approved due to the specialized equipment requirement. Upon implementation of the revised statute internship programs were moved from an unapproved status to an approved or conditionally approved status depending on the specifics of the internship.

2010-2011 new program/course submissions and approval status:

JTED	Number of Programs/Courses Approved
CAVIAT	4/9
CAVIT	8/20
CTD	0/0
CVIT	0/0
EVIT	0/0
GIFT	1/2
MIJTED	4/11
NATIVE	5/14
NAVIT	2/4
PIMA	8/25
VACTE	1/1
WAVE	5/11
WEST-MEC	1/1
TOTAL	39/98

2009-2010 new program/course submissions and approval status:

JTED	Number of Programs/Courses Approved
CAVIAT	3/12
CAVIT	10/27
CTD	3/7
CVIT	5/14
EVIT	20/56
GIFT	0/0
MIJTED	15/50
NATIVE	4/18
NAVIT	3/10
PIMA	21/61
VACTE	2/13
WAVE	31/145
WEST-MEC	0/0
TOTAL	117/413

2008-2009 new program/course submissions and approval status:

JTED	Number of Programs/Courses Approved
CAVIAT	29/112
CAVIT	0/0
CTD	16/53
CVIT	11/26
EVIT	167/895
GIFT	23/92
NATIVE	52/135
NAVIT	58/151
PIMA	65/231
VACTE	11/55
WEST-MEC	18/58
TOTAL	450/1808

2007-2008 new program/course submissions and approval status:

JTED	Number of Programs/Courses Approved
CAVIAT	21/89
CAVIT	21/67
CTD	30/120
CVIT	13/38
EVIT	102/609
GIFT	13/57
NATIVE	27/78
NAVIT	68/214
PIMA	91/330
VACTE	10/54
WEST-MEC	250/784
TOTAL	646/2440

The summary below provides a composite of all JTED program/course approval status by year. It should be noted that many of the conditionally approved courses from previous years may be part of the approved or unapproved courses for the next year or two. Occasionally, conditionally approved courses may remain for more than one year, until the program has had an on-site visitation and brought identified deficiencies into compliance.

JTED Data on Eligible Programs/Courses

Approved programs SY 2007-2008	646
Approved programs SY 2008-2009	450
Approved programs SY 2009-2010	117
Approved programs SY2010-2011	39
Approved programs SY2011-2012	8
Approved courses SY 2007-2008	2440
Approved courses SY 2008-2009	1808
Approved courses SY 2009-2010	413
Approved courses SY2010-2011	98
Approved courses SY2011-2012	31

Conditionally approved programs/courses (all years) 373/1016

JTED Data on Programs/Courses Not Approved:

Unapproved courses SY 2007-2008	15/79
Unapproved courses SY 2008-2009	31/122
Unapproved courses SY 2009-2010	6/18
Unapproved courses SY 2010-2011	0/0
Unapproved courses SY 2011-2012	1/2

Total Programs/Courses eligible for funding (all years) 1635/5806

The following are lists of the State Board of Career and Technological Education approved Career and Technical Education Programs and Course Sequences. Each JTED's courses submitted for SY2011-2012 approval are shown below for each CTE Program. Summary data for all reporting years is shown for comparison at the end of each Program.

Accounting and Related Services
Program CIP Code: 52.0300

The following lists the recommended Career Preparation courses developed from industry-validated skills for initial employment or continued related education. All the state-designated Accounting and Related Services standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 52.0300.10 Introduction to Business & Accounting**
-and-
52.0300.20 Basic Accounting

And one or more of the following courses will be included in the coherent sequence of courses for this instructional program:

- 52.0300.30 Advanced Accounting**
And program may elect to add:
52.0300.75 Accounting – Internship
-or-
52.0300.80 Accounting – Cooperative Education

JTED Program Applications submitted for Accounting and Related Services for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	1	0	1
WEST-MEC	0	0	0	0
TOTAL	0	1	0	1

Accounting and Related Services programs/courses JTED eligible:

Approved programs SY 2007-2008	1
Approved programs SY 2008-2009	8
Approved programs SY 2009-2010	2
Approved programs SY2010-2011	1
Approved programs SY2011-2012	0
Approved courses SY 2007-2008:	3
Approved courses SY 2008-2009:	33
Approved courses SY 2009-2010	8
Approved courses SY2010-2011	3
Approved courses SY2011-2012	0

Conditionally approved programs/courses (all years) 6/19

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	1/30
Unapproved programs/courses SY 2008-2009	4/15
Unapproved programs/courses SY 2009-2010	2/6
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Agricultural Business Management – Agriscience
Program CIP Code: 01.0100

The following lists the recommended Career Preparation courses developed from industry-validated skills for initial employment or continued related education. All the state-designated standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 01.0100.10 Agricultural Business**
-and-
01.0100.12 Agricultural Business Management
-and-
01.0100.14 Agricultural Business Management – Agriscience
-and-

Option A

- 01.0100.20 Food Products and Processing Systems**
-or-

Option B

- 01.0100.30 Plant Systems**
-or-

Option C

- 01.0100.40 Animal Systems**
-or-

Option D

- 01.0100.50 Natural Resources Systems**
-or-

Option E

- 01.0100.60 Power, Structural and Technical Systems**
-or-

Option F

- 01.0100.90 Agribusiness Systems**

-or

Option G

01.0100.00 Environmental Service Systems
And program may elect to add:

01.0100.75 Agricultural Business Management – Agriscience – Internship

-or-

01.0100.80 Agricultural Business Management – Agriscience – Cooperative Education

JTED Program Applications submitted for Agricultural Business Management - Agriscience for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	1	0	1
CAVIT	1	0	0	1
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	1	1	0	2

Agricultural Business Management – Agriscience programs/courses JTED eligible:

Approved programs SY 2007-2008	50
Approved programs SY 2008-2009	10
Approved programs SY 2009-2010	7
Approved programs SY2010-2011	2
Approved programs SY2011-2012	1
Approved courses SY 2007-2008	357
Approved courses SY 2008-2009	44
Approved courses SY 2009-2010	34
Approved courses SY2010-2011	9
Approved courses SY2011-2012	3

Conditionally approved programs/courses (all years) 8/40

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	2/17
Unapproved programs/courses SY 2008-2009	1/5
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Air Transportation
Program CIP Code: 49.0100

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the state-mandated Career Preparation standards are addressed in this instructional sequence. Air Transportation is a new program added to the 2010 CTE Program List based on Arizona Labor Market Data.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 49.0100.10** **Air Transportation I**
 -and-
- 49.0100.20** **Air Transportation II**
 -and-
- 49.0100.30** **Air Transportation III**
- And program may elect to add:**
- 49.0100.75** **Air Transportation – Internship**
 -or-
- 49.0100.80** **Air Transportation – Cooperative Education**

No JTED Program Applications submitted for Air Transportation for 2011-2012 school year.

Air Transportation courses JTED eligible:

Approved programs SY 2009-2010	1
Approved programs SY2010-2011	0
Approved programs SY2011-2012	0
Approved courses SY 2009-2010	3
Approved courses SY2010-2011	0
Approved courses SY2011-2012	0

Conditionally approved programs/courses (all years) 0/0

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Allied Health Services
Program CIP Code: 51.0800

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the state-mandated Career Preparation standards are addressed in this instructional sequence. Allied Health Services consists of five program options, each with its own set of Career Preparation standards. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 51.0800.10** **Fundamentals of Allied Health**
- Option A**
- 51.0800.20** **Pharmacy Support Services**
 -or-
- Option B**
- 51.0800.30** **Laboratory Assisting**
 -or-
- Option C**
- 51.0800.40** **Medical Imaging Support Services**

-or-

Option D

51.0800.50 Sports Medicine & Rehabilitation Therapies.

-or-

Option E

51.0800.60 Medical Assisting Services

And program may elect to add:

51.0800.75 Allied Health – Internship

-or-

51.0800.80 Allied Health Services – Cooperative Education

JTED Program Applications submitted for Allied Health for 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	2	0	2
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	0	2	0	2

Allied Health courses JTED eligible:

Approved programs SY 2007-2008	22
Approved programs SY 2008-2009	1
Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	129
Approved courses SY 2008-2009	1
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 38/92

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Audio/Visual Technology – name changed to Multimedia Technologies in 2011-2012
Program CIP Code: 10.0200

Audio/Visual Technology 10.0200 program name changed to Multimedia as a result of Arizona Labor Market Data and reflected on the 2012 CTE Program List.

Bioscience

Program CIP Code: 41.0100

Biomedical Health Technologies 51.1000 program name and CIP Code changed to Bioscience 41.0100 as a result of Arizona Labor Market Data and reflected on the 2010 CTE Program List. The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the state-mandated Career Preparation standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 41.0100.10 Introduction to Bioscience**
-and-
Option A
41.0100.20 Bio-medical
-or-
Option B
41.0100.30 Bio-environmental
-or-
Option C
41.0100.40 Bio-innovations
And program may elect to add:
41.0100.75 Bioscience – Internship
-or-
41.0100.80 Bioscience- Cooperative Education

JTED Program Applications for Bioscience for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	1	0	1
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	1	0	1
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	0	2	0	2

Bioscience courses JTED eligible:

Approved programs SY 2007-2008	3
Approved programs SY 2008-2009	7
Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0

Approved courses SY 2007-2008	10
Approved courses SY 2008-2009	18
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 21/51

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	1/1
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Business Management and Administrative Services

Program CIP Code: 52.0200

The following lists the recommended Career Preparation courses developed from industry-validated skills for initial employment or continued related education. All the state-designated Business Management and Administrative Services standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

52.0200.10 Introduction to Business Management and Administrative Services

-and-

52.0200.20 Basic Business Management and Administrative Services

-and-

One or more of the following courses will be included in the coherent sequence of courses for this instructional program:

52.0200.30 Advanced Business Management and Administrative Services

-or-

52.0200.75 Business Management and Administrative Services – Internship

-or-

52.0200.80 Business Management and Administrative Services – Cooperative Education

No JTED Program Applications submitted for Business Management and Administrative Services for the 2011-2012 school year.

Business Management and Administrative Services courses JTED eligible:

Approved programs SY 2007-2008	2
Approved programs SY 2008-2009	39
Approved programs SY 2009-2010	7
Approved programs SY 2010-2011	1
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	5
Approved courses SY 2008-2009	225
Approved courses SY 2009-2010	32
Approved courses SY 2010-2011	3
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 4/21

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	1/3
Unapproved programs/courses SY 2008-2009	13/51
Unapproved programs/courses SY 2009-2010	2/6
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Business Operations Support and Assistant Services
Program CIP Code: 52.0400

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the state-mandated Career Preparation standards are addressed in this instructional sequence. Business Operations Support and Assistant Services, is a new program added to the 2010 CTE Program List based on Arizona Labor Market Data.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 52.0400.10 Business Operations Support and Assistant Services**
-and-
52.0400.20 Advanced Business Operations Support and Assistant Services
And program may elect to add:
52.0400.75 Business Operations Support and Assistant Services – Internship
-or-
52.0400.80 Business Operations Support and Assistant Services – Cooperative Education

**JTED Program Applications submitted for Business Operations Support and Assistant Services
for 2011-2012 school year:**

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	1	0	0	1
WEST-MEC	0	0	0	0
TOTAL	1	0	0	1

Business Operations Support and Assistant Services courses JTED eligible:

Approved programs SY 2009-2010	3
Approved programs SY2010-2011	6
Approved programs SY2011-2012	1
Approved courses SY 2009-2010	7
Approved courses SY 2010-2011	12
Approved courses SY 2011-2012	1

Conditionally approved programs/courses (all years) 2/8

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Construction Technologies
Program CIP CODE: 46.0400

The following lists the recommended courses developed from industry-validated skills necessary for initial employment or continued related education. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

46.0400.10 Construction Technologies Core Curriculum
-and-

Option A **Advanced Construction Technologies**
46.0400.20

-or -

Option B
46.0400.30 Carpentry
-or-

Option C
46.0400.40 Cabinet Making

And program may elect to add:

46.0400.75 Construction Technologies – Internship
-or-

46.0400.80 Construction Technologies – Cooperative Education

No JTED Program Applications submitted for Construction Technologies for 2011-2012 school year.

Construction Technologies courses JTED eligible:

Approved programs SY 2007-2008	51
Approved programs SY 2008-2009	32
Approved programs SY 2009-2010	11
Approved programs SY 2010-2011	2
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	90
Approved courses SY 2008-2009	27
Approved courses SY 2009-2010	39
Approved courses SY 2010-2011	4
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 2/3

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	1/2
Unapproved programs/courses SY 2008-2009	1/3
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Cosmetology
Program CIP: 12.0400

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the Career Preparation state-designated Cosmetology standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

12.0400.10 Fundamentals of Cosmetology
-and-

12.0400.20 Cosmetology – Advanced Applications

- And program may elect to add:**
- 12.0400.75 Cosmetology – Internship**
-or-
12.0400.80 Cosmetology – Cooperative Education

No JTED Program Applications submitted for Cosmetology for 2011-2012 school year.

Cosmetology courses JTED eligible:

Approved programs SY 2007-2008	14
Approved programs SY 2008-2009	2
Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	20
Approved courses SY 2008-2009	8
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 19/55

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Culinary Arts

Program CIP Code: 12.0500

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the state-designated Culinary Arts standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

12.0500.10 Fundamentals of Culinary Arts

-and-

12.0500.20 Culinary Arts Applications

And program may elect to add:

12.0500.75 Culinary Arts – Internship

-or-

12.0500.80 Culinary Arts – Cooperative Education

JTED Program Applications for Culinary Arts for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	1	0	0	1
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	1	0	0	1

Culinary Arts courses JTED eligible:

Approved programs SY 2007-2008	25
Approved programs SY 2008-2009	48
Approved programs SY 2009-2010	7
Approved programs SY 2010-2011	6
Approved programs SY 2011-2012	1

Approved courses SY 2007-2008:	70
Approved courses SY 2008-2009:	182
Approved courses SY 2009-2010	20
Approved courses SY 2010-2011	10
Approved courses SY 2011-2012	2

Conditionally approved programs/courses (all years) 4/11

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Dental Assisting

Program CIP Code: 51.0600

The following lists the recommended sequence of courses that are necessary for initial employment or continued related education. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 51.0600.10 Fundamentals of Dental Assisting**
- and-**
- 51.0600.20 Dental Assisting – Advanced Applications**
- And program may elect to add:**
- 51.0600.75 Dental Assisting – Internship**
- or-**
- 51.0600.80 Dental Assisting – Cooperative Education**

No JTED Program Applications submitted for Dental Assisting for the 2011-2012 school year.

Dental Assisting courses JTED eligible:

Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0

Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 15/30

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Design and Merchandising

Program CIP Code: 52.1900

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the state-designated Design and Merchandising standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

52.1900.10 Fundamentals of Design and Merchandising
-and-

Option A

52.1900.20 Fashion Design and Merchandising Applications
-or-

Option B

52.1900.30 Interior Design and Merchandising Applications
And program may elect to add:

52.1900.75 Design and Merchandising – Internship
-or-

52.1900.80 Design and Merchandising – Cooperative Education

No JTED Program Applications submitted for Design and Merchandising for the 2011-2012 school year.

Design and Merchandising courses JTED eligible:

Approved programs SY 2007-2008	10
Approved programs SY 2008-2009	26
Approved programs SY 2009-2010	4
Approved programs SY 2010-2011	1
Approved programs SY 2011-2012	0

Approved courses SY 2007-2008	29
Approved courses SY 2008-2009	141
Approved courses SY 2009-2010	11
Approved courses SY 2010-2011	2
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 0/0

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Diagnostic and Intervention Technologies
Program CIP Code: 51.0900

The Diagnostic and Intervention Technologies program consists of three options, each of which will have its own set of Career Preparation standards. At least two Carnegie Units will be earned in the Career Preparation sequence of courses. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

Option A

- 51.0900.20 **Fundamentals of Respiratory Therapy**
- and-
- 51.0900.25 **Respiratory Therapy – Advanced Applications**
- or-

Option B

- 51.0900.30 **Fundamentals of Emergency Medical Services**
- and-
- 51.0900.35 **Emergency Medical Services- Advanced Applications**
- or-

Option C

- 51.0900.40 **Fundamentals of Surgical Technicians**
- and-
- 51.0900.45 **Surgical Technicians – Advance Applications**
- And program may elect to add:**
- 51.0900.75 **Diagnostic & Intervention Technologies – Internship**
- or-
- 51.0900.80 **Diagnostic & Intervention Technologies – Cooperative Education**

No JTED Program Applications submitted for Diagnostic and Intervention Technologies for the 2011-2012 school year.

Diagnostic and Intervention Technologies courses JTED eligible:

Approved programs SY 2007-2008	2
Approved programs SY 2008-2009	0
Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	11
Approved courses SY 2008-2009	0
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 8/26

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Drafting and Design Technologies
Program CIP Code: 15.1300

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Drafting and Design Technologies standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

15.1300.10 Drafting and Design Technologies Fundamentals

-and-

One of the following Career Preparation courses (.20, .30, .40 or .50) will be included as part of the instructional sequence for this program:

Option A

15.1300.20 Architectural Drafting

-or-

Option B

15.1300.40 Electronics Drafting

-or-

Option C

15.1300.50 Mechanical Drafting

And program may elect to add:

-or-

15.1300.75 Drafting and Design Technologies – Internship

-or-

15.1300.80 Drafting and Design Technologies – Cooperative Education

No JTED Program Applications submitted for Drafting and Design Technologies for the 2011-2012 school year:

Drafting and Design Technologies courses JTED eligible:

Approved programs SY 2007-2008	50
Approved programs SY 2008-2009	18
Approved programs SY 2009-2010	4
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	166
Approved courses SY 2008-2009	77
Approved courses SY 2009-2010	23
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 4/9

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Early Childhood Education
Program CIP Code: 13.1210

The following lists the recommended sequence of courses organized on the basis of industry-recognized skills necessary for initial employment or continued related education. All the state-designated Early Childhood Education standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 13.1210.10** **Fundamentals of Early Childhood Education**
-and-
13.1210.20 **Early Childhood Education Applications**
And program may elect to add:
13.1210.75 **Early Childhood Education – Internship**
-or-
13.1210.80 **Early Childhood Education – Cooperative Education**

JTED Program Applications submitted for Early Childhood Education for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	1	0	1
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	0	1	0	1

Early Childhood Education courses JTED eligible:

Approved programs SY 2007-2008	45
Approved programs SY 2008-2009	19
Approved programs SY 2009-2010	3
Approved programs SY 2010-2011	3
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	143
Approved courses SY 2008-2009	91
Approved courses SY 2009-2010	13
Approved courses SY 2010-2011	7
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 8/20

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Education Professions
Program CIP Code: 13.1200

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Education Professions standards are addressed in this instructional program. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 13.1200.10** **Education Professions Fundamentals**
-and-
13.1200.20 **Education Professions Applications**
And program may elect to add:
13.1200.75 **Education Professions – Internship**
-or-
13.1200.80 **Education Professions – Cooperative Education**

No JTED Program Applications submitted for Education Professions for the 2011-2012 school year.

Education Professions courses JTED eligible:

Approved programs SY 2007-2008	43
Approved programs SY 2008-2009	24
Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	2
Approved programs SY 2011-2012	2
Approved courses SY 2007-2008	130
Approved courses SY 2008-2009	42
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	5
Approved courses SY 2011-2012	2

Conditionally approved programs/courses (all years) 4/8

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	2/5
Unapproved programs/courses SY 2008-2009	2/5
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Electrical and Power Transmission Technologies
Program CIP Code: 46.0300

The program is comprised of a core curriculum and two options: Option A (Residential Electrician) and Option B (Industrial Electrician). The following lists the recommended courses developed from industry-validated skills necessary for initial employment or continued related education. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 46.0300.10** **Electrical Fundamentals**
-and-

At least one option must be included as part of the instructional sequence for this program:

Option A

- 46.0300.20** **Residential Electrician**

Option B

- 46.0300.30** **Industrial Electrician I**
And program may elect to add:

46.0300.75 Electrical and Power Transmission Technologies – Internship

-or-

46.0300.80 Electrical and Power Transmission Technologies – Cooperative Education

No JTED Program Applications submitted for Electrical and Power Transmission Technologies for the 2011-2012 school year.

Electrical and Power Transmission Technologies courses JTED eligible:

Approved programs SY 2007-2008:	3
Approved programs SY 2008-2009	21
Approved programs SY 2009-2010	1
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008:	12
Approved courses SY 2008-2009:	78
Approved courses SY 2009-2010	2
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 1/2

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Electrical Systems Installation and Maintenance Technologies

Program CIP Code: 47.0100

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. The state-mandated Career Preparation standards are to be developed. Electrical Systems Installation and Maintenance Technologies is a new program added to the 2010 CTE Program List based on Arizona Labor Market Data. The program name changed from Telecommunication Maintenance Installers to Electrical Systems Installation and Maintenance Technologies. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

47.0100.10 Electrical Systems Installation and Maintenance Technologies Fundamentals

-and-

47.0100.20 Electrical Systems Installation and Maintenance Technologies I

-and-

47.0100.25 Electrical Systems Installation and Maintenance Technologies II

And program may elect to add:

47.0100.75 Electrical Systems Installation and Maintenance Technologies – Internship

-or-

47.0100.80 Electrical Systems Installation and Maintenance Technologies – Cooperative Education

No JTED Program Applications submitted for Electrical Systems Installation and Maintenance Technologies for the 2011-2012 school year.

Electrical Systems Installation and Maintenance Technologies program/courses JTED eligible:

Approved programs SY 2009-2010	1
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2009-2010	2
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 2/6

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Electronic Technologies

Program CIP Code: 15.0300

The following lists the recommended courses developed from industry-validated skills necessary for initial employment or continued related education. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 15.0300.10 Electronic Technologies Core Curriculum**
- and-**
- 15.0300.20 Basic Electricity Principles and Applications**
- and-**
- 15.0300.25 Basic Electronic Principles and Applications**
- And program may elect to add:**
- 15.0300.75 Electronic Technologies – Internship**
- or-**
- 15.0300.80 Electronic Technologies – Cooperative Education**

No JTED Program Applications submitted for Electronic Technologies for the 2011-2012 school year.

Electronic Technologies courses JTED eligible:

Approved programs SY 2007-2008	1
Approved programs SY 2008-2009	3
Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	3
Approved courses SY 2008-2009	14
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 3/5

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	3/9
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Engineering Sciences
Program CIP Code: 15.0000

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. The state-mandated Career Preparation standards are to be developed. Engineering Sciences is a new program added to the 2009 CTE Program List based on Arizona Labor Market Data. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 15.0000.10** **Fundamentals to Explore Engineering Sciences**
 -and-
15.0000.20 **Applications of Problem Solving in Engineering Sciences**
 -and-
15.0000.30 **Advanced Engineering Sciences**
And program may elect to add:
15.0000.75 **Engineering Sciences – Internship**
 -or-
15.0000.80 **Engineering Sciences – Cooperative Education**

JTED Program Applications submitted for Engineering Sciences for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	2	0	0	2
CAVIT	0	1	0	1
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	1	0	1
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	2	2	0	4

Engineering Sciences courses JTED eligible:

Approved programs SY 2008-2009	11
Approved programs SY 2009-2010	4
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	2
Approved courses SY 2008-2009	45
Approved courses SY 2009-2010	16
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	2

Conditionally approved programs/courses (all years) 26/95

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Financial Services
Program CIP Code: 52.0800

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All Career Preparation state-designated Financial Services standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 52.0800.10 Introduction to Business and Financial Services**
-and-
52.0800.20 Basic Financial Services
-and-

One or more of the following courses will be included as part of the instructional sequence for this program:

- 52.0800.30 Advanced Financial Services**
-or-
52.0800.75 Financial Services – Internship
-or-
52.0800.80 Financial Services – Cooperative Education

No JTED Program Applications submitted for Financial Services for the 2011-2012 school year.

Financial Services courses JTED eligible:

Approved programs SY 2008-2009	0
Approved programs SY 2009-2010	3
Approved programs SY 2010-2011	4
Approved programs SY 2011-2012	0
Approved courses SY 2008-2009	0
Approved courses SY 2009-2010	8
Approved courses SY 2010-2011	11
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 1/2

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2008-2009	1/3
Unapproved programs/courses SY 2009-2010	1/3
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Fire Service
Program CIP Code: 43.0200

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the Career Preparation state-designated Fire Science standards are addressed in this instructional sequence. The program name changed from Fire Science to Fire Service for school year 2010-2011. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 43.0200.10 Fundamentals of Fire Service**
-and-
43.0200.20 Fire Service – Advanced Applications
And program may elect to add:
43.0200.75 Fire Service – Internship
-or-
43.0200.80 Fire Service – Cooperative Education

JTED Program Applications submitted for Fire Service for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	1	0	1
WEST-MEC	0	0	0	0
TOTAL	0	1	0	1

Fire Service courses JTED eligible:

Approved programs SY 2007-2008	8
Approved programs SY 2008-2009	17
Approved programs SY 2009-2010	1
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	22
Approved courses SY 2008-2009	34
Approved courses SY 2009-2010	2
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 16/30

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Graphic Communications
Program CIP Code: 10.0300

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Graphic Communications standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

10.0300.10 Graphic Communications Fundamentals

-and-

The following course can be added, if necessary, to the Coherent Sequence of Instruction.

10.0300.12 Graphic Communication Fundamentals II

-and-

Two of the following Career Preparation courses (.20 and .25 or .30 and .35 or .40 and .45) will be included as part of the instructional sequence for this program:

Option A

10.0300.20 Graphic Arts I.

-and-

- 10.0300.25 Graphic Arts II
-or-
Option B
10.0300.30 Graphic Design I
-and-
10.0300.35 Graphic Design II
-or-
Option C
10.0300.40 Photo Imaging I
-and-
10.0300.45 Photo Imaging II
And program may elect to add:
10.0300.75 Graphic Communications – Internship
-or-
10.0300.80 Graphic Communications – Cooperative Education

JTED Program Applications submitted Graphic Communications for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	2	0	0	2
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	1	0	1
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	2	1	0	3

Graphic Communications courses JTED eligible:

Approved programs SY 2007-2008	35
Approved programs SY 2008-2009	27
Approved programs SY 2009-2010	8
Approved programs SY 2010-2011	4
Approved programs SY 2011-2012	2
Approved courses SY 2007-2008	179
Approved courses SY 2008-2009	198
Approved courses SY 2009-2010	39
Approved courses SY 2010-2011	9
Approved courses SY 2011-2012	10

Conditionally approved programs/courses (all years) 16/70

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Heating, Ventilation and Air Conditioning
Program CIP Code: 47.0200

The following lists the recommended courses from industry-validated skills necessary for initial employment or continued related education. The state-mandated Career Preparation standards are to be developed. The program name changed from Heating/Air Conditioning Maintenance to Heating, Ventilation and Air Conditioning in school year 2010-2011. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 47.0200.10 Heating, Ventilation and Air Conditioning I**
-and-
47.0200.20 Heating, Ventilation and Air Conditioning II
And program may elect to add:
47.0200.75 Heating, Ventilation and Air Conditioning – Internship
-or-
47.0200.80 Heating, Ventilation and Air Conditioning – Cooperative Education

No JTED Program Applications submitted for Heating/Air Conditioning Maintenance for the 2011-2012 school year.

Heating/Air Conditioning Maintenance courses JTED eligible:

Approved programs SY 2007-2008	3
Approved programs SY 2008-2009	0
Approved programs SY 2009-2010	0
Approved programs SY2010-2011	0
Approved programs SY2011-2012	0
Approved courses SY 2007-2008	6
Approved courses SY 2008-2009	0
Approved courses SY 2009-2010	0
Approved courses SY2010-2011	0
Approved courses SY2011-2012	0

Conditionally approved programs/courses (all years) 4/6

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Heavy Equipment Operations
Program CIP Code: 49.0200

The following lists the recommended courses to be developed from industry-validated skills necessary for initial employment or continued related education. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 49.0200.10 Heavy Equipment Operations I**
-and-
49.0200.20 Heavy Equipment Operations II
And program may elect to add:
49.0200.75 Heavy Equipment Operations – Internship
-or-
49.0200.80 Heavy Equipment Operations – Cooperative Education

No JTED Program Applications submitted for Heavy Equipment Operations for 2011-2012 school year.

Heavy Equipment Operation courses JTED eligible:

Approved programs SY 2007-2008	1
Approved programs SY 2008-2009	1
Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008:	2
Approved courses SY 2008-2009:	2
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 1/2

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Heavy/Industrial Equipment Maintenance Technologies

Program CIP Code: 47.0300

The following lists the recommended courses to be developed from industry-validated skills necessary for initial employment or continued related education. Heavy/Industrial Equipment Maintenance Technologies is a new program for school year 2009-2010. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 47.0300.10 Heavy/Industrial Equipment Maintenance Tech Core Curriculum**
- and-
- 47.0300.20 Heavy/Industrial Equipment Maintenance Tech I**
- and-
- 47.0300.25 Heavy/Industrial Equipment Maintenance Tech II**
- And program may elect to add:**
- 47.0300.75 Heavy/Industrial Equipment Maintenance Tech – Internship**
- or-**
- 47.0300.80 Heavy/Industrial Equipment Maintenance Tech – Cooperative Education**

**JTED Program Applications submitted for Heavy/Industrial Equipment Maintenance Technologies
for 2011-2012 school year:**

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	1	0	1
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	0	1	0	1

Heavy/Industrial Equipment Maintenance Technologies courses JTED eligible:

Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 3/7

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Hospitality Management
Program CIP Code: 52.0900

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the state-designated Hospitality Management standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 52.0900.10 Fundamentals of Hospitality Management**
- and-**
- 52.0900.20 Hospitality Management Applications**
- And program may elect to add:**
- 52.0900.75 Hospitality Management – Internship**
- or-**
- 52.0900.80 Hospitality Management – Cooperative Education**

JTED Program Applications submitted for Hospitality Management for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	1	0	1
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	0	1	0	1

Hospitality Management courses JTED eligible:

Approved programs SY 2007-2008	0
Approved programs SY 2008-2009	8
Approved programs SY 2009-2010	6
Approved programs SY 2010-2011	1
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008:	0
Approved courses SY 2008-2009:	24
Approved courses SY 2009-2010	13
Approved courses SY 2010-2011	3
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 3/7

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Information Technology

Program CIP Code: 15.1200

The Information Technology program consists of a core curriculum and four areas of specialization for a student to choose from: Option A) Computer Maintenance; Option B) Network Technology; Option C) Software Development or Option D) Web Page Development. The following lists the recommended courses developed from industry-validated skills necessary for initial employment or continued related education. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

15.1200.10 Information Technology Fundamentals

-and-

One of the four Career Preparation options (.20 or .30 or .40 or .50) will be included as part of the instructional sequence for this program:

Option A

15.1200.20 Computer Maintenance

-or-

Option B

15.1200.30 Network Technology
-or-

Option C

15.1200.40 Software Development
-or-

Option D

15.1200.50 Web Page Development
And program may elect to add:
15.1200.75 Information Technology – Internship
-or-
15.1200.80 Information Technology – Cooperative Education

JTED Program Applications submitted for Information Technology for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	1	1	0	2
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	1	1	0	2

Information Technologies courses JTED eligible:

Approved programs SY 2007-2008	53
Approved programs SY 2008-2009	20
Approved programs SY 2009-2010	9
Approved programs SY 2010-2011	1
Approved programs SY 2011-2012	1
Approved courses SY 2007-2008:	278
Approved courses SY 2008-2009:	61
Approved courses SY 2009-2010	35
Approved courses SY 2010-2011	5
Approved courses SY 2011-2012	2

Conditionally approved programs/courses (all years) 14/37

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	1/5
Unapproved programs/courses SY 2008-2009	1/1
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Option C

52.1800.40 Entertainment Marketing

-or-

Option D

52.1800.50 Entrepreneurship

-or-

Option E

52.1800.60 Advertising

And program may elect to add:

52.1800.75 Marketing, Management and Entrepreneurship – Internship

-or-

52.1800.80 Marketing, Management and Entrepreneurship – Cooperative Education

JTED Program Applications submitted for Marketing, Management and Entrepreneurship for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	1	1
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	0	0	1	1

Marketing, Management and Entrepreneurship courses JTED eligible:

Approved programs SY 2007-2008	58
Approved programs SY 2008-2009	35
Approved programs SY 2009-2010	6
Approved programs SY 2010-2011	3
Approved programs SY 2011-2012	0

Approved courses SY 2007-2008:	166
Approved courses SY 2008-2009:	130
Approved courses SY 2009-2010	16
Approved courses SY 2010-2011	8
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 2/4

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	2/4
Unapproved programs/courses SY 2008-2009	8/39
Unapproved programs/courses SY 2009-2010	2/6
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	1/2

Mental and Social Health Services
Program CIP Code: 51.1500

The following lists the recommended sequence of courses that will help prepare students to complete successfully a postsecondary program in mental and social health services. All the Career Preparation state-designated Mental and Social Health Services standards are to be developed. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 51.1500.10** **Fundamentals of Mental and Social Health Services**
-and-
51.1500.20 **Mental and Social Health Services – Advanced Applications**
And program may elect to add:
51.1500.75 **Mental and Social Health Services – Internship**
-or-
51.1500.80 **Mental and Social Health Services – Cooperative Education:**

No JTED Program Applications submitted for Mental and Social Health Services for 2011-2012 school year:

Mental and Social Health Services courses JTED eligible:

Approved programs SY 2007-2008	0
Approved programs SY 2008-2009	0
Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	0
Approved courses SY 2008-2009	0
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 5/12

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Multimedia Technologies – previously Audio/Visual Technology
Program CIP Code: 10.0200

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Multimedia Technology standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 10.0200.10** **Fundamentals of Multimedia Technologies**

10.0200.20 **Applications of Multimedia Technologies I**
-and-
10.0200.30 **Applications of Multimedia Technologies II**
-or-
And program may elect to add:
10.0200.75 **Multimedia Technologies – Internship**
-or-
10.0200.80 **Multimedia Technologies – Cooperative Education**

JTED Program Applications submitted for Multimedia Technologies for 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	1	0	1
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	1	0	1
TOTAL	0	2	0	2

Multimedia Technologies courses JTED eligible:

Approved programs SY 2007-2008	52
Approved programs SY 2008-2009	19
Approved programs SY 2009-2010	11
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008:	174
Approved courses SY 2008-2009:	67
Approved courses SY 2009-2010	30
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 7/19

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Nursing Services

Program CIP Code: 51.3900

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Nursing Services standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 51.3900.10** **Fundamentals of Nursing Services**
-and-
51.3900.20 **Nursing Services – Advanced Applications**
And program may elect to add:
51.3900.75 **Nursing Services – Internship**
-or-

51.3900.80 Nursing Services – Cooperative Education

JTED Program Applications submitted for Nursing Services for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	1	0	1
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	0	1	0	1

Nursing Services courses JTED eligible:

Approved programs SY 2007-2008	43
Approved programs SY 2008-2009	1
Approved programs SY 2009-2010	1
Approved programs SY 2010-2011	2
Approved programs SY 2011-2012	0

Approved courses SY 2007-2008	99
Approved courses SY 2008-2009	2
Approved courses SY 2009-2010	2
Approved courses SY 2010-2011	5
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 48/119

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Performing Arts and Entertainment Industry

Program CIP Code: 50.0500

The following lists the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated standards are addressed in this instructional sequence. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

Option A

**50.0500.20 Fundamentals of Performing Arts and Entertainment Industry – Technical Theatre
-and-**

50.0100.25 Performing Arts and Entertainment Industry – Technical Theater I
Option may elect to add:

- 50.0500.26 Performing Arts and Entertainment Industry – Technical Theater II
-or-
Option B
50.0500.30 Fundamentals of Performing Arts and Entertainment Industry – Arts Management
-and-
50.0500.35 Performing Arts and Entertainment Industry – Arts Management I
Option may elect to add:
50.0500.36 Performing Arts and Entertainment Industry – Arts Management II
- And program may elect to add:
50.0500.75 Performing Arts and Entertainment Industry – Internship
-or-
50.0500.80 Performing Arts and Entertainment Industry – Cooperative Education

JTED Program Applications submitted for Performing Arts for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	1	0	1
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	2	0	2
WEST-MEC	0	0	0	0
TOTAL	0	3	0	3

Performing Arts courses JTED eligible:

Approved programs SY 2007-2008	0
Approved programs SY 2008-2009	2
Approved programs SY 2009-2010	1
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0

Approved courses SY 2007-2008:	0
Approved courses SY 2008-2009:	7
Approved courses SY 2009-2010	3
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 19/60

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Precision Manufacturing
Program CIP Code:48.0500

The Precision Manufacturing program is comprised of two core curriculums and two options: Option A (Automation/Robotics); Option B (Precision Machining – formerly Computer Controlled Fabrication.) The following lists the recommended courses developed from industry-validated skills necessary for initial employment or continued related education. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

48.0500.10 Fundamentals of Precision Manufacturing

-and-

48.0500.12 Applications of Precision Machining

-and-

One of the following Career Preparation options will be included as part of the instructional sequence for this program:

Option A

48.0500.20 Automation/Robotics

-or-

Option B

48.0500.30 Precision Machining

And program may elect to add:

48.0500.75 Precision Manufacturing – Internship

-or-

48.0500.80 Precision Manufacturing – Cooperative Education

No JTED Program Applications submitted for Precision Manufacturing for the 2011-2012 school year.

Precision/Industrial Manufacturing courses JTED eligible:

Approved programs SY 2007-2008	0
Approved programs SY 2008-2009	7
Approved programs SY 2009-2010	4
Approved programs SY 2010-2011	1
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	0
Approved courses SY 2008-2009	33
Approved courses SY 2009-2010	17
Approved courses SY 2010-2011	3
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 1/3

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Therapeutic Massage
Program CIP Code: 51.3500

The following lists the recommended courses to be developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated standards for Therapeutic Massage are to be developed. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 51.3500.10 Fundamentals of Therapeutic Massage**
- and-**
- 51.3500.20 Therapeutic Massage – Advanced Applications**
- And program may elect to add:**
- 51.3500.75 Therapeutic Massage – Internship**
- or-**
- 51.3500.80 Therapeutic Massage – Cooperative Education**

No JTED Program Applications submitted for Therapeutic Massage for the 2011-2012 school year.

Therapeutic Massage courses JTED eligible:

Approved programs SY 2007-2008	0
Approved programs SY 2008-2009	0
Approved programs SY 2009-2010	0
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	0
Approved courses SY 2008-2009	0
Approved courses SY 2009-2010	0
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 2/5

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Transportation Technologies

Program CIP Code: 47.0600

The following lists the recommended courses developed from industry-validated skills necessary for initial employment or continued related education. Program name was changed from Automotive Technologies to Transportation Technologies. An additional option “General Services Technician was added to the 2010 CTE Program List (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 47.0600.10 Automotive Technologies Core Curriculum**
- and-**

At least one option must be included as part of the instructional sequence for this program:

Option A

- 47.0600.20 Automotive Technology I**
- and-**
- 47.0600.25 Automotive Technology II**
- or-**

Option B

- 47.0600.30 Automotive Collision Repair I:**
- and-**
- 47.0600.35 Automotive Collision Repair II:**
- or-**

Option C

- 47.0600.40 Diesel Engine Repair Technology I**
- and-**

47.0600.45 Diesel Engine Repair Technology II

-or-

Option D

47.0600.50 Aircraft Mechanics I

-and-

47.0600.55 Aircraft Mechanics II

-or-

Option E

47.0600.60 General Services Technician I

-and-

47.0600.65 General Services Technician II

And program may elect to add:

47.0600.75 Automotive Technologies – Internship

-or-

47.0600.80 Automotive Technologies – Cooperative Education

JTED Program Applications submitted for Transportation Technologies for 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	0	0	0
CAVIT	0	1	0	1
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	1	0	1
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	1	0	1
TOTAL	0	3	0	3

Transportation Technologies courses JTED eligible:

Approved programs SY 2007-2008	488
Approved programs SY 2008-2009	15
Approved programs SY 2009-2010	8
Approved programs SY 2010-2011	2
Approved programs SY 2011-2012	0

Approved courses SY 2007-2008	188
Approved courses SY 2008-2009	50
Approved courses SY 2009-2010	31
Approved courses SY 2010-2011	8
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 8/22

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

Welding Technologies
Program CIP Code: 48.0508

The following lists the recommended courses developed from industry-validated skills necessary for initial employment or continued related education. (See appendix C for complete program and course descriptions.)

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 48.0508.10** **Welding Technologies Core Curriculum**
-and-
48.0508.20 **Welding Technologies**
And program may elect to add:
48.0508.75 **Welding Technologies - Internship**
-or-
48.0508.80 **Welding Technologies - Cooperative Education**

JTED Program Applications submitted for Welding Technology for the 2011-2012 school year:

JTED	Number of Programs Approved	Number of Programs s Conditionally Approved	Number of Programs Unapproved	Total Number of Programs Requested
CAVIAT	0	1	0	1
CAVIT	0	0	0	0
CTD	0	0	0	0
CVIT	0	0	0	0
EVIT	0	0	0	0
GIFT	0	0	0	0
MIJTED	0	0	0	0
NATIVE	0	0	0	0
NAVIT	0	0	0	0
PIMA	0	0	0	0
VACTE	0	0	0	0
WAVE	0	0	0	0
WEST-MEC	0	0	0	0
TOTAL	0	1	0	1

Welding Technologies courses JTED eligible:

Approved programs SY 2007-2008	15
Approved programs SY 2008-2009	14
Approved programs SY 2009-2010	1
Approved programs SY 2010-2011	0
Approved programs SY 2011-2012	0
Approved courses SY 2007-2008	45
Approved courses SY 2008-2009	43
Approved courses SY 2009-2010	1
Approved courses SY 2010-2011	0
Approved courses SY 2011-2012	0

Conditionally approved programs/courses (all years) 33/78

JTED Data on Programs/Courses Not Approved:

Unapproved programs/courses SY 2007-2008	0/0
Unapproved programs/courses SY 2008-2009	0/0
Unapproved programs/courses SY 2009-2010	0/0
Unapproved programs/courses SY 2010-2011	0/0
Unapproved programs/courses SY 2011-2012	0/0

CTE Technical Skills Assessment

The online CTE Assessment System is designed to lead students toward certification that is accepted by vocation or industry as a demonstration of skill in that industry per the definition in ARS §15-391(3)(d)(e). The Arizona Skill Standards Commission oversees the Career and Technical Education (CTE) Assessment System. The CTE standards for each of the CTE occupational programs are industry-based and industry-validated. The online assessment items are aligned to the CTE program standards.

The chart below lists 49 CTE Programs/Program Options in the Arizona CTE Assessment System with technical skill assessments available during the Spring 2012 assessment window.

CIP	Program/Option	CIP	Program/Option
52.0300.0	Accounting and Related Services	01.0100.0	Environmental Service Systems Option G
46.0400.2	Advanced Construction Technologies Option A	52.1900.2	Fashion Design and Merchandising Option A
52.1800.3	Advertising and Public Relations Option B	52.0800.0	Financial Services
01.0100.9	Agribusiness Systems Option F	43.0200.0	Fire Service
47.0600.5	Aircraft Mechanics Option D	52.0900.0	Hospitality Management
01.0100.4	Animal Systems Option C	52.1900.3	Interior Design and Merchandising Option B
15.1300.2	Architectural Drafting Option A	51.0800.3	Laboratory Assisting Option B
50.0500.3	Arts Management Option B	43.0100.0	Law, Public Safety and Security
48.0500.2	Automation/Robotics Option A	15.1300.4	Mechanical Drafting Option C
47.0600.3	Automotive Collision Repair Option B	51.0800.6	Medical Assisting Services Option E
47.0600.2	Automotive Technologies Option A	01.0100.5	Natural Renewable Resources Systems Option D
41.0100.0	Bioscience	15.1200.3	Network Technologies Option B
52.0200.0	Business Management and Administrative Services	51.3900.0	Nursing Services
52.0400.0	Business Operations Support and Assistant Services	51.0800.2	Pharmacy Support Services Option A
46.0400.4	Cabinetmaking Option C	01.0100.3	Plant Systems Option B
46.0400.3	Carpentry Option B	48.0500.3	Precision Machining Option B
15.1200.2	Computer Maintenance Option A	52.1800.2	Professional Sales and Marketing Option A
12.0500.0	Culinary Arts	15.1200.4	Software Development Option C
13.1210.0	Early Childhood Education	51.0800.5	Sports Medicine and Rehabilitation Services Option D
13.1200.0	Education Professions	51.0900.4	Surgical Technician Option C
15.1300.3	Electronic Drafting Option B	50.0500.2	Technical Theatre Option A
51.0900.3	Emergency Medical Services Option B	51.3500.0	Therapeutic Massage
15.0000.0	Engineering Sciences	15.1200.5	Web Page Development Option D
52.1800.4	Entertainment Marketing Option C	48.0508.0	Welding Technologies
52.1800.5	Entrepreneurship Option D		

Students are provided the opportunity to take a **practice assessment** prior to the completion of their CTE program. The practice assessment serves as a diagnostic tool for CTE teachers and students to use to demonstrate their readiness to pass the assessment prior to the **final assessment**. Students who pass their assessment are awarded a Certificate and Transcript by the Arizona Skill Standards Commission.

The CTE Assessment System is working effectively to improve JTED-funded Career and Technical Education programs in Arizona.

The chart below lists participation in the **final assessment** and pass rates for Spring 2012. Many of the students' scores reflected in this chart may still be enrolled in school. As a result, these data are not identical to the data used for federal reporting purposes.

Joint Technical Education Districts	Students Passing Assessments (Numerator)	Student Participation in Assessments (Denominator)	% Passing
CAVIAT – Coconino Association for Vocation Industry & Technology	286	344	83.14%
Flagstaff Unified SD	136	168	80.95%
Fredonia - Moccasin Unified SD	18	24	75.00%
Grand Canyon Unified SD	0	0	0.00%
Page Unified SD	99	115	86.09%
Williams Unified SD	33	37	89.19%
CAVIT – Central Arizona Valley Institute of Technology	407	471	86.41%
Central Arizona Valley Institute of Technology	124	124	100.00%
Casa Grande Union HSD	125	156	80.13%
Coolidge Unified SD	57	80	71.25%
Florence Unified SD	58	61	95.08%
Maricopa Unified SD	26	31	83.87%
Santa Cruz Valley Union HSD	17	19	89.47%
CTD – Cochise Technology District	544	770	70.65%
Benson Unified SD	100	128	78.13%
Bowie Unified SD	3	3	100.00%
Douglas Unified SD	245	417	58.75%
San Simon Unified SD	7	7	100.00%
St. David Unified SD	56	62	90.32%
Tombstone Unified SD	80	92	86.96%
Valley Union HSD	26	29	89.66%
Willcox Unified SD	27	32	84.38%
CVIT – Cobre Valley Institute of Technology	115	129	89.15%
Globe Unified SD	43	50	86.00%
Hayden - Winkelman Unified SD	3	4	75.00%
Miami Unified SD	15	18	83.33%
San Carlos Unified SD	23	24	95.83%
Superior Unified SD	31	33	93.94%
EVIT – East Valley Institute of Technology	3078	3562	86.41%
EVIT - Main	785	839	93.56%
EVIT - Apache Junction Unified SD	66	104	63.46%
EVIT - Chandler Unified SD	487	552	88.22%
EVIT - Fountain Hills Unified SD	26	26	100.00%
EVIT - Gilbert Unified SD	432	489	88.34%
EVIT - Higley Unified SD	66	83	79.52%
EVIT - J O Combs Unified SD	10	21	47.62%
EVIT - Mesa Unified SD	405	478	84.73%
EVIT - Queen Creek Unified SD	115	143	80.42%
EVIT - Scottsdale Unified SD	195	213	91.55%
EVIT - Tempe Union HSD	491	614	79.97%

Joint Technical Education Districts	Students Passing Assessments (Numerator)	Student Participation in Assessments (Denominator)	% Passing
GIFT – Gila Institute for Technology	272	333	81.68%
Gila Institute for Technology	62	69	89.86%
Duncan Unified SD	13	14	92.86%
Ft. Thomas Unified SD	21	24	87.50%
Morenci Unified SD	2	2	100.00%
Pima Unified SD	39	42	92.86%
Safford Unified SD	101	142	71.13%
Thatcher Unified SD	34	40	85.00%
MIJTED – Mountain Institute Joint Technological Education District	325	352	92.33%
Mountain Institute Central Campus	87	100	87.00%
Ash Fork Unified SD	4	6	66.67%
Bagdad Unified SD	19	22	86.36%
Chino Valley Unified SD	95	97	97.94%
Humboldt Unified SD	58	61	95.08%
Mayer Unified SD	11	15	73.33%
Prescott Unified SD	46	46	100.00%
Seligman Unified SD	5	5	100.00%
NATIVE – Northeast Arizona Technological Institute of Vocational Education	412	613	67.21%
Chinle Unified SD	63	97	64.95%
Ganado Unified SD	48	63	76.19%
Kayenta Unified SD	64	101	63.37%
Pinon Unified SD	42	66	63.64%
Red Mesa Unified SD	16	36	44.44%
Sanders Unified SD	34	47	72.34%
Tuba City Unified SD	125	171	73.10%
Window Rock Unified SD	20	32	62.50%
NAVIT – Northern Arizona Vocational Institute of Technology	355	408	87.01%
NAVIT Courses	100	101	99.01%
Blue Ridge Unified SD	20	24	83.33%
Heber - Overgaard Unified SD	9	11	81.82%
Holbrook Unified SD	46	64	71.88%
Joseph City Unified SD	14	15	93.33%
Payson Unified SD	32	33	96.97%
Round Valley Unified SD	19	25	76.00%
Show Low Unified SD	51	53	96.23%
Snowflake Unified SD	17	19	89.47%
St. Johns Unified SD	13	17	76.47%
Whiteriver Unified SD	5	8	62.50%
Winslow Unified SD	29	38	76.32%

Joint Technical Education Districts	Students Passing Assessments (Numerator)	Student Participation in Assessments (Denominator)	% Passing
Pima County JTED	1996	2552	78.21%
Pima JTED Central Campus	247	258	95.74%
Ajo Unified SD	6	10	60.00%
Amphitheater Unified SD	191	221	86.43%
Catalina Foothills Unified SD	125	126	99.21%
Flowing Wells Unified SD	71	80	88.75%
Indian Oasis Unified SD	14	29	48.28%
Marana Unified SD	270	339	79.65%
Sahuarita Unified SD	52	85	61.18%
Santa Cruz Valley Unified District Rio Rico	114	133	85.71%
Sunnyside Unified SD	218	316	68.99%
Tanque Verde Unified SD	16	19	84.21%
Tucson Unified SD	516	746	69.17%
Vail Unified SD	156	190	82.11%
VACTE – Valley Academy for Career and Technology Education	125	153	81.70%
Camp Verde Unified SD	40	47	85.11%
Mingus Union HSD	67	77	87.01%
Sedona - Oak Creek Unified SD	18	29	62.07%
WAVE – Western Arizona Vocational Education	387	440	87.95%
Colorado River Union HSD	113	134	84.33%
Kingman Unified SD	166	188	88.30%
Lake Havasu Unified SD	73	78	93.59%
Parker Unified SD	35	40	87.50%
West-MEC – Western Maricopa Education Center	3535	4388	80.56%
Central Campus	68	79	86.08%
Agua Fria Union HSD	205	313	65.50%
Buckeye Union HSD	132	192	68.75%
Deer Valley Unified SD	411	468	87.82%
Dysart Unified SD	231	307	75.24%
Glendale Union HSD	732	891	82.15%
Paradise Valley Unified SD	343	420	81.67%
Peoria Unified SD	1318	1614	81.66%
Saddle Mountain Unified SD	22	23	95.65%
Wickenburg Unified SD	73	81	90.12%
Source --- Spring 2012 Total Results Report	11,837	14,515	81.55%

QUESTION 3: JTED Course Cost

ARS § 15-393.M.3 “The costs associated with each course offered by the joint district.”

Historically, the term “cost”, as it relates to the requirements in ARS § 15-393.M.3, was never defined, either specifically or in terms of the Legislature’s intent.

Cost data at the program or course level is not collected nor reported to the ADE in a format usable for purposes of this report. All 13 JTEDs operating in SY 2012 reported separate program cost information to the ADE CTE Section in a format developed cooperatively among the ADE and JTED representatives. The ADE CTE Section requested course expenditure information based on existing Uniform System of Financial Reporting (USFR) and Chart of Account expenditure codes (cost items such as salaries, benefits, supplies).

Any discussion of cost is complicated by the fact that member districts typically receive state and federal grants, as well as utilize non-JTED local funding for instructor salaries, costs often supported by the member districts. This year’s cost data attempts to provide cost/expenditure information from all primary sources. Formats vary from detailed (596 AFR Expenditure Code) to aggregate/total cost information for all other sources.

In 2011, eleven JTED Business Managers met with an ADE representative in an effort to standardize the cost reporting method utilized to meet the reporting requirements (question 3) of ARS § 15-393.M. The problems persist but there is improvement. The number of member district expenditure reports that matched the member districts’ Annual Financial Reports (AFR – Page 6, Funding Account 596 - Joint Technical Education) did increase.

The detail of cost data available varies. There are several primary sources of CTE funding. They overlap in their use at the district and school level. They are:

- Local tax levy revenues and State Aid (Funding Account 596) which are reported by each JTED and each JTED member district. At this level, costs are reported at the USFR Expenditure Code level.
- The total amount of JTED costs covered and reported for purposes of ARS §15-393.D.9 and USFR Memorandum 219 (non-supplanting) purposes. Cost detail is not available.
- State Vocational Block Grant funding. Typically, these funds are awarded directly to the JTED member districts and are not considered JTED funds. Total award and fiscal completion report expenditure information is included as a sub-folder. The information is included on a CD with the paper copies of this report and as digital sub-folders with the digital copies of this report.
- Carl D. Perkins federal CTE grant funds. As with the state grant funds, these funds are also awarded directly to the JTED member districts and are not considered JTED funds. Total award and fiscal completion report expenditure information is included as a sub-folder. The information is included on a CD with the paper copies of this report and as digital sub-folders with the digital copies of this report.

Additional funding sources can include the following, but are not viewed as major sources of revenues:

- Contributions under the provisions of ARS § 43-1089.01 (Tax Credits)
- Gifts of equipment or supplies, and
- Other (such as National Forest fees or Taylor Grazing fees)

With the exception of EVIT, state and federal grant funds are typically only applied for by JTED member districts. Districts are given the high cost of offering approved CTE program courses and must rely on and coordinate all sources of revenues to support their CTE programs. Management of both the state and federal grant funds falls outside of the JTED's normal control. Therefore, grant expenditures are not reported with the same level of detail as state and local support received under the provisions of ARS §15-393.

Certain challenges still exist relative to the cost data received from JTEDs which include:

- The failure of some member districts to supply cost/expenditure data in a timely manner to their central JTED offices for further review before it is transferred to ADE CTE.
- Lack of an agreed method of JTED costs reporting.

Some costs could be easily identified in the comments section of the worksheets submitted. An example for this would be unique equipment purchases or new facilities cost. While easily identified, including them in an annual statement of a program's maintenance and operating costs would skew a program's annual costs as reported.

CAVIAT, for example, expended \$143,000 on their Heating Ventilation and Air Conditioning program and \$267,533 in upgrades on their Culinary programs.

The ADE CTE office will continue to work with JTED districts to improve cost reporting practices. A challenge is the fact that the JTED cost reporting practices topic is basically dealt with only once a year and it is only when the data begins to come in that the ADE/CTE Section and the JTED business managers know how successful a proposed change was.

The primary reason for the *central JTED* cost data differences relative to a JTED's AFR report could simply be due to the question –

“What central program costs should be included in the instructional cost of the programs being offered by a JTED or JTED member district?”

For example, “Do you allocate the cost of the JTED Board back to individual instructional programs? What about the cost of JTED elections?”

Finally, it should be noted that the exclusion of JTED 9th grade ADM for funding purposes had a major impact on the amount of JTED funding available. For example, the 2012 funding code 596 expenditures reported for the PIMA JTED were down approximately -42% relative to its 2011 amounts and the NAVIT JTED expenditures were down -24.5% for the same period.

Methodology

Program course expenditure information is reported for the following categories (object codes) identified in the Joint Career and Technical Education and Vocational Center Supplement to Annual Financial Report (AFR)

- Salaries

- Employee Benefits
- Purchased Services
- Supplies, including textbooks & instructional aids
- Property, including land, building & equipment
- Other

Expenditure categories are combined to bring the report format more in line with the expenditure codes utilized for other USFR reporting purposes.

Historically, school districts do not track expenditures at the course or program level. While the USFR does permit cost recording at the program or course level, cost reporting is typically less detailed. Normally, expenditures are recorded at the revenue source level. For instance, a district's salary cost would be recorded against a grant, IGA or the revenue code to which the salary is being charged at the budget or aggregate level and *not* by the program or course.

The cost reporting requirements in ARS § 15-393 placed new requirements on school districts participating in a JTED, requiring a level of detail that is unique and significantly more complex than traditional USFR reporting requirements. Based on input from JTED business managers and superintendents, ARS § 15-393.M.3 was changed to allow cost reporting at the program level beginning with the 2009-2010 school year.

Only funds received under local tax levy revenues and State Aid (Funding Account 596) are reported and compared *in detail* for purposes of this report. These funds are considered to be those *most* under the control of a JTED, subject to the approved conditions of the Intergovernmental Agency Agreement (IGA) between each JTED and its member districts.

Currently, the data are collected via a linked Excel application (Appendix I; also included on the enclosed CD) developed by the ADE to facilitate reporting by JTED member districts to their JTED central offices.

The cost information reviewed was for the 2011-2012 school year (SY 12) only. The ADE CTE Section will continue to work with the JTED business managers to standardize data reporting across the 13 unique JTEDs.

It was the intent of the JTEDs to align their report Funding Account 596 expenditure information to their Annual Financial Reports (AFRs). As indicated previously, there are still differences. ADE CTE staff will continue to work with the JTED business managers to resolve issues and questions.

The ADE CTE staff's historical focus is grant-based funding. The ADE/CTE staff is not experienced or trained in ADM reporting and state funding issues; typically this is School Finance's area of expertise.

An additional reporting decision that needs to be discussed again relates to costing out JTED member district costs under the non-supplanting language in ARS § 15-393.B.9 and USFR Program Memorandum 219.

A joint decision was made to report only the *total* FY 2011 again relative to maintenance costs for each member district rather than requesting the districts to report these monies in detail by program and expenditure category (salaries, benefits, etc.).

It is assumed that most of these funds are used to support CTE salaries and some historical asset replacement. Reporting these funds costs by program was considered to be costly in terms of personnel cost.

Appendix J contains a summary of total “program course cost” by program code/title and by JTED and their member districts. It includes mode, median and maximum cost expenditure percent information for the “salary” through “other” costs categories listed on pages 151-176.

If the reader wishes to see each member district’s reported expenditures by member district, including M & O expenditures, Perkins expenditures, and state grant expenditures information, it can be found in the JTED’s cost workbook on the enclosed CD.

When reviewing Appendix J, please note the use of the term “mode” differs from the statistical definition of a “mode”.

A mode is traditionally defined as the value that occurs the most frequently in a data set or a probability distribution.

A data set may contain more than one mode. In the event more than one modal group was identified, the mode with the largest value (in this case percent of aggregate course cost by expenditure category – such as salaries, etc.) is shown. Also, the percent of aggregate cost calculated was rounded to the nearest whole percent. For example 97.1 % and 97.2% were rounded to 97.0%. Values greater than 0.0% to 1.49% are shown as 1.0%. The use of rounded values affects the value shown as an expenditure category's “mode” for the purposes of this report.

Challenges

Volume: Currently, the CTE Section identifies 38 broad program areas with over 70 program options. Given that the number of potential program options per broad program can vary, allocating costs can prove challenging.

For example, “Transportation Technologies” is listed as a single program cluster. Under “Transportation Technologies,” there are four program options that range from “Automotive Technologies” (course number 47.0600.20) to “Aircraft Mechanics” (course number 47.0600.50).

The decision to group course costs for reporting purposes by program cluster has lessened the administrative cost associated with allocating such costs and is expected to be more accurate. To some degree this challenge can also span programs, such as programs in the business and marketing areas which are similar but distinct programs.

Reporting Big “Ticket Items”: Any JTED that constructs a new facility or retrofits an existing facility to improve a program, or introduces a new program, may have enormous initial program/course costs unless the costs were amortized over time or excluded from data reported as part of a program’s cost.

ADE CTE requested that they exclude such costs from their reported program costs and report the information separately. Only one JTED identified such a cost separately this year.

Federal & State Grant Expenditures: It is recognized that CTE programs are expensive and that districts must coordinate all funds received in order to effectively support effective CTE programs. State and federal grant award information as well as individual member district federal and state completion reports (reflects aggregate expenditure information by category, not program) are included on the CD supplied with the written version of this report or in digital folders included with the on-line or digital copies of this report for informational purposes.

Increased Administrative Cost: Tracking of costs at the program course level requires a level of detail not required by the USFR or federal and state grant purposes. As a result, JTEDs and their member districts incur the added cost of tracking and recording the more detailed expenditures/costs.

JTED Satellite Issues: Communication challenges are common. All JTED business managers work with multiple satellite districts and their business managers. Confusion related to the information being requested and reporting requirements are possible. Reasons can include changes in the statute, report format changes, staff turnover, etc.

Current statutory language does not address what actions a JTED may take if a member district fails to provide expenditure-related data to the JTED to insure the JTEDs' compliance with the reporting requirements of ARS §15-393.M.

It is recommended that compliance with the statutory reporting requirements and remedies to deal with non-performance be included in each JTED operating IGA with their member districts.

JTED Staffing Issues: Annually JTEDs and/or their member districts have staff turnover. As a result, new staff lack the benefit of historical knowledge of the prior year's process and could not readily answer questions or offer an opinion as to why a specific change in expenditure categories or levels had occurred.

CTE Staffing Issues: The CTE Section does not have full-time staff dedicated to the support or for administration of JTEDs and requirements of ARS § 15-391 through 393.

Legislative Intent: Relative to the "program cost" reporting question, what did the Legislature wish to see?

Traditional possibilities could include:

- the cost of implementing a new JTED program;
- the cost of maintaining an existing JTED program, and
- the ability to compare the cost of a JTED program/course from one JTED to another.

If the Legislature's goal is a formal cost analysis of the JTED educational delivery system, a *cost study* may be required in order to provide more qualified answers.

Analysis-Conclusions

Limiting detailed analysis to only those monies referred to as "596" funds, hopefully, will improve the ability to compare multiple year costs in the future. The elimination of 9th grade students for JTED ADM funding purposes greatly restricts any type of FY2011 to FY 2012 cost/expenditure comparisons. There is still apparent strong correlation between program cost and salary cost, with this being the only consistent category.

An effort was made to analyze 596 cost data correlation to aggregate program costs for the following JTED satellite districts:

- EVIT - EVIT Main
- EVIT - Tempe UHSD
- NAVIT - Blue Ridge USD
- NAVIT - Winslow USD
- VACTE - Mingus UHSD
- VACTE - Camp Verde USD

Per the first JTED report to the Legislature in 2008, “*The CTE staff fully expected to see courses with high start-up expenses and highly specialized facilities cost more than those with less specialized equipment and facility requirements did*”, but that was not the case.

The cost data reflects how most districts expend their JTED revenues to *maintain* on-going programs, not necessarily create new programs.

Teacher salaries and benefits are still the strongest indicator of total program costs based on the correlation coefficients results.

Recommendations

- In the event of statutory changes, provide the JTEDs sufficient notice and time to modify their accounting systems in order to gather and report the information sought if significant changes are made.
- Consider a *cost study* to replace the cost reporting requirement in ARS 15-383.M.3.
- *Given the low number of requests for the report consider its elimination as a cost saving action.*
- Review other options, such as “cost per desired outcome,” for the purpose of meeting the course/program cost reporting requirement in ARS 15-383.M.3.
- The CTE Section will continue to work with the JTED business managers for the purposes of meeting the reporting requirements in ARS §15-393.M.3.
- The ADE/CTE Section does not recommend requiring JTEDs to report detailed costs by program for member district’s Maintenance Funds (219), State Vocational Block Grant funds or Carl D. Perkins funds. The cost of doing so outweighs any apparent benefit in our opinion at this time.

Selected Expenses to Total Program Costs Correlation Coefficient

	Salary & ERE Correlation	Purchased¹ Services Correlation	Supplies Correlation²	Property Correlation³	Other Correlation	Participant Enrollment Correlation
EVIT Main Campus	0.993	0.677	0.015	0.925	-0.232	0.895
EVIT Member District Mesa USD	0.988	0.987	0.979	0.225	0.162	0.823
EVIT Member District Tempe UHSD	1.000	0.996	0.982	0.995	1.000	0.162
NAVIT Member District Blue Ridge USD	0.974	0.729	0.243	0.118	0.030	0.002
NAVIT Member District Winslow USD	0.926	-	-	-	-	0.306
VACTE Member District Camp Verde USD	0.968	0.444	-1.000	-	0.986	-0.677
VACTE Member District Mingus UHSD	0.928	0.739	0.650	0.254	0.981	0.358
	-	Cost data not reported or only a single data element reported				

¹ USFR Codes 63XX, 64XX, 65XX

² USFR Codes 66XX - Textbooks & Instructional Aids

³ USFR Codes 67XX - Land and Equipment

Other - USFR Codes 68XX

QUESTION 4: Program Completion Rates

ARS § 15-393.M 4 “The completion rate for each program offered by the joint district.”

Methodology

For JTED reporting purposes, the formula used to calculate program completion is as follows:

Numerator: Number of CTE concentrators who completed the state-designated sequence of instruction in a JTED program and *took and passed* the technical skills assessment and left secondary education in the reporting year.

Denominator: Number of CTE concentrators who completed the state-designated sequence of instruction in a JTED program and took the technical skills assessment and left secondary education in the reporting year.

The term CTE concentrator is used frequently in the narrative and the charts in this section. A CTE concentrator is a JTED student who has earned two (2) Carnegie Units in a state-designated sequence of instruction in an approved CTE program. In specific programs the concentrator may need to take an additional Carnegie Unit to complete the industry standards for that program.

During 2011-12, there were 38 programs with 70 program options available. Of these 70 options, there were 49 options that had assessments. Approved JTED programs were expected to assess all concentrators who were in the final course of a coherent sequence of instruction if there was an assessment available. Concentrators are only included in the count when they leave school because they graduated or dropped out, and are unduplicated.

Included in this report is the program completion data which shows the number of students who completed the minimum number of Carnegie Units in each program. If the number of students who completed the minimum number of Carnegie Units does not equal the number of students assessed, it could be because some of the students may be enrolled in an option that does not yet have an assessment, or these students were not ready to take the assessment. This data shows the numerator, the denominator, and percentage of concentrators that took the assessment and passed in each approved program for the JTED, district and school. This data also indicates approved programs that do not have an assessment available but have concentrators who completed the coherent sequence of courses.

2012 JTED Program Completion Data

The data used in this analysis of program completion in all JTED programs comes from the online system where districts report concentrators. Districts report School, Program, SAIS ID, Birthdate and Number of Carnegie Units earned in the program in each concentrator record. Each program and option has a designated number of courses in the coherent sequence of either two or three courses. Once a concentrator record indicates the student has completed the minimum number of Carnegie Units, assessment results are expected. Included in this report is the JTED program completion data including: CTE program name, number of concentrators who have completed the coherent sequence of courses, number of

eligible concentrators who could take an assessment and the number of students who took and passed the assessment. The data is confirmed by each district using the Concentrator Verification Report.

2012 JTED Program Completion Data Issues

Challenges and issues related to data reporting include the following:

- Additional assessments are being developed annually. Once all programs and options have an assessment in place, the data will be more comprehensive.
- There are CTE programs with options; some options have assessments while others do not. Students cannot assess in a CTE program where the assessment for the option has yet to be developed. It is difficult in the state level data to determine if a student had the opportunity to assess, since data is collected by program.
- For a variety of reasons, not all students who qualify to take an assessment are being assessed.
- Due to the increase in state level percentages fewer students are qualifying to meet state rates.

Concentrator Charts

Data included in the charts list all secondary CTE programs in Arizona by JTED, by school district, assessment availability, concentrators who completed a sequence of courses, concentrators who passed, percent who passed, and percent of concentrators who assessed.

Data are displayed by member districts for each JTED statewide. The data is used to calculate program completion.

Results

- 9,506 concentrators completed the coherent sequence of courses in a JTED program.
- 8,258 concentrators completed the coherent sequence of courses in a program with an assessment.
- 6,177 or 74.80 percent of all eligible concentrators took an assessment.
- 5,380 or 87.10 percent of all eligible concentrators passed an assessment.
- 1,248 concentrators completed a program that did not have an assessment available.

Recommendations

- ADE CTE continues to provide technical assistance to JTEDs to access eligible students.
- Recommend that only students who complete the coherent sequence of courses be allowed to take an assessment, where available.
- Recommend research and analysis of the economic benefit and return on investment from JTED programs to include longitudinal post-program outcomes.

SY 2012 Program Completion Data

CONCENTRATORS WHO COMPLETED THE COHERENT SEQUENCE IN A PROGRAM WITH AN ASSESSMENT							
Program Number	Program Name	Assessment Available?	Concentrator Completed Coherent Seq of Courses	Program Completion Passed	Program Completion Assessed	Percent Passed	Percent of Completers Assessed
CAVIAT							
510800	Allied Health Services	YES	1	1	1	100.00%	100.00%
520200	Business Mgmt & Admin Services	YES	6	1	1	100.00%	16.67%
460400	Construction Technologies	YES	23	15	16	93.75%	69.57%
120500	Culinary Arts	YES	56	32	36	88.89%	64.29%
521900	Design and Merchandising	YES	13	4	4	100.00%	30.77%
151300	Drafting and Design Technologies	YES	11	9	10	90.00%	90.91%
131210	Early Childhood Education	YES	11	3	6	50.00%	54.55%
131200	Education Professions	YES	8	8	8	100.00%	100.00%
150000	Engineering Sciences	YES	9	7	9	77.78%	100.00%
151200	Information Technologies	YES	11	5	6	83.33%	54.55%
521800	Marketing Management and Entrepreneurship	YES	4	2	2	100.00%	50.00%
513900	Nursing Services	YES	18	15	15	100.00%	83.33%
480500	Precision Manufacturing	YES	1	1	1	100.00%	100.00%
470600	Transportation Technologies	YES	32	18	24	75.00%	75.00%
480508	Welding Technologies	YES	47	30	36	83.33%	76.60%
CAVIT							
010100	Agricultural Business Management - Agriscience	YES	15	13	14	92.86%	93.33%
510800	Allied Health Services	YES	38	23	24	95.83%	63.16%
520200	Business Mgmt & Admin Services	YES	1	1	1	100.00%	100.00%
520400	Business Operations Support and Assistant	YES	8	6	6	100.00%	75.00%
460400	Construction Technologies	YES	18	11	15	73.33%	83.33%
120500	Culinary Arts	YES	66	50	51	98.04%	77.27%
510900	Diagnostic and Intervention Technologies	YES	2	2	2	100.00%	100.00%
131210	Early Childhood Education	YES	33	24	29	82.76%	87.88%
131200	Education Professions	YES	1	1	1	100.00%	100.00%
430200	Fire Service	YES	16	11	11	100.00%	68.75%
520900	Hospitality Management	YES	4	4	4	100.00%	100.00%
430100	Law Public Safety and Security	YES	19	9	9	100.00%	47.37%
521800	Marketing Management and Entrepreneurship	YES	21	7	7	100.00%	33.33%
513900	Nursing Services	YES	26	6	6	100.00%	23.08%
513500	Therapeutic Massage	YES	11	8	8	100.00%	72.73%
470600	Transportation Technologies	YES	2	1	1	100.00%	50.00%
480508	Welding Technologies	YES	3	2	2	100.00%	66.67%

SY 2012 Program Completion Data

CTD							
520300	Accounting and Related Services	YES	2	2	2	100.00%	100.00%
010100	Agricultural Business Management - Agriscience	YES	54	47	47	100.00%	87.04%
510800	Allied Health Services	YES	19	10	18	55.56%	94.74%
410100	Bioscience	YES	18	7	12	58.33%	66.67%
520200	Business Mgmt & Admin Services	YES	15	13	15	86.67%	100.00%
460400	Construction Technologies	YES	19	12	15	80.00%	78.95%
120500	Culinary Arts	YES	45	40	44	90.91%	97.78%
151300	Drafting and Design Technologies	YES	15	12	13	92.31%	86.67%
131210	Early Childhood Education	YES	20	10	18	55.56%	90.00%
131200	Education Professions	YES	9	9	9	100.00%	100.00%
430200	Fire Service	YES	12	1	11	9.09%	91.67%
520900	Hospitality Management	YES	1	1	1	100.00%	100.00%
151200	Information Technologies	YES	10	6	9	66.67%	90.00%
521800	Marketing Management and Entrepreneurship	YES	37	27	37	72.97%	100.00%
513900	Nursing Services	YES	14	8	9	88.89%	64.29%
470600	Transportation Technologies	YES	14	10	11	90.91%	78.57%
480508	Welding Technologies	YES	3	3	3	100.00%	100.00%
CVIT							
010100	Agricultural Business Management - Agriscience	YES	7	6	7	85.71%	100.00%
520200	Business Mgmt & Admin Services	YES	4	2	4	50.00%	100.00%
460400	Construction Technologies	YES	11	5	7	71.43%	63.64%
120500	Culinary Arts	YES	13	10	10	100.00%	76.92%
151300	Drafting and Design Technologies	YES	1	1	1	100.00%	100.00%
131210	Early Childhood Education	YES	8	8	8	100.00%	100.00%
131200	Education Professions	YES	1	1	1	100.00%	100.00%
520900	Hospitality Management	YES	6	6	6	100.00%	100.00%
151200	Information Technologies	YES	1	1	1	100.00%	100.00%
521800	Marketing Management and Entrepreneurship	YES	7	5	6	83.33%	85.71%
513900	Nursing Services	YES	4	2	2	100.00%	50.00%
480508	Welding Technologies	YES	8	7	8	87.50%	100.00%

SY 2012 Program Completion Data

EVIT							
010100	Agricultural Business Management - Agriscience	YES	137	97	103	94.17%	75.18%
510800	Allied Health Services	YES	245	125	165	75.76%	67.35%
410100	Bioscience	YES	116	72	72	100.00%	62.07%
520200	Business Mgmt & Admin Services	YES	63	49	55	89.09%	87.30%
460400	Construction Technologies	YES	87	47	62	75.81%	71.26%
120500	Culinary Arts	YES	443	256	268	95.52%	60.50%
521900	Design and Merchandising	YES	110	75	84	89.29%	76.36%
510900	Diagnostic and Intervention Technologies	YES	40	21	21	100.00%	52.50%
151300	Drafting and Design Technologies	YES	50	28	31	90.32%	62.00%
131210	Early Childhood Education	YES	165	122	141	86.52%	85.45%
131200	Education Professions	YES	64	24	25	96.00%	39.06%
150000	Engineering Sciences	YES	36	30	32	93.75%	88.89%
520800	Financial Services	YES	9	1	1	100.00%	11.11%
430200	Fire Service	YES	53	46	46	100.00%	86.79%
520900	Hospitality Management	YES	44	35	35	100.00%	79.55%
151200	Information Technologies	YES	163	64	75	85.33%	46.01%
430100	Law Public Safety and Security	YES	200	125	162	77.16%	81.00%
521800	Marketing Management and Entrepreneurship	YES	118	59	69	85.51%	58.47%
513900	Nursing Services	YES	277	248	262	94.66%	94.58%
500500	Performing Arts and Entertainment Industry	YES	58	22	23	95.65%	39.66%
480500	Precision Manufacturing	YES	13	8	8	100.00%	61.54%
513500	Therapeutic Massage	YES	46	43	43	100.00%	93.48%
470600	Transportation Technologies	YES	337	139	149	93.29%	44.21%
480508	Welding Technologies	YES	146	60	60	100.00%	41.10%
GIFT							
520300	Accounting and Related Services	YES	2	2	2	100.00%	100.00%
010100	Agricultural Business Management - Agriscience	YES	10	9	10	90.00%	100.00%
510800	Allied Health Services	YES	16	7	8	87.50%	50.00%
520200	Business Mgmt & Admin Services	YES	44	33	38	86.84%	86.36%
460400	Construction Technologies	YES	16	11	11	100.00%	68.75%
120500	Culinary Arts	YES	26	17	17	100.00%	65.38%
151300	Drafting and Design Technologies	YES	7	6	6	100.00%	85.71%
131210	Early Childhood Education	YES	5	2	3	66.67%	60.00%
430200	Fire Service	YES	1	1	1	100.00%	100.00%
521800	Marketing Management and Entrepreneurship	YES	1	1	1	100.00%	100.00%
513900	Nursing Services	YES	6	2	2	100.00%	33.33%
470600	Transportation Technologies	YES	7	7	7	100.00%	100.00%
480508	Welding Technologies	YES	10	4	5	80.00%	50.00%

SY 2012 Program Completion Data

MILITARY							
010100	Agricultural Business Management - Agriscience	YES	4	4	4	100.00%	100.00%
410100	Bioscience	YES	11	10	10	100.00%	90.91%
520200	Business Mgmt & Admin Services	YES	15	15	15	100.00%	100.00%
460400	Construction Technologies	YES	4	4	4	100.00%	100.00%
120500	Culinary Arts	YES	13	11	13	84.62%	100.00%
151300	Drafting and Design Technologies	YES	1	1	1	100.00%	100.00%
131200	Education Professions	YES	2	2	2	100.00%	100.00%
151200	Information Technologies	YES	23	22	23	95.65%	100.00%
521800	Marketing Management and Entrepreneurship	YES	11	10	11	90.91%	100.00%
513900	Nursing Services	YES	24	19	20	95.00%	83.33%
480500	Precision Manufacturing	YES	2	2	2	100.00%	100.00%
470600	Transportation Technologies	YES	10	8	8	100.00%	80.00%
480508	Welding Technologies	YES	4	3	3	100.00%	75.00%
NATIVE							
520300	Accounting and Related Services	YES	1	1	1	100.00%	100.00%
010100	Agricultural Business Management - Agriscience	YES	40	33	33	100.00%	82.50%
520200	Business Mgmt & Admin Services	YES	3	3	3	100.00%	100.00%
460400	Construction Technologies	YES	42	23	30	76.67%	71.43%
120500	Culinary Arts	YES	32	23	26	88.46%	81.25%
151300	Drafting and Design Technologies	YES	33	16	22	72.73%	66.67%
131210	Early Childhood Education	YES	14	9	13	69.23%	92.86%
131200	Education Professions	YES	9	6	6	100.00%	66.67%
520900	Hospitality Management	YES	8	2	3	66.67%	37.50%
430100	Law Public Safety and Security	YES	1	1	1	100.00%	100.00%
521800	Marketing Management and Entrepreneurship	YES	14	8	12	66.67%	85.71%
513900	Nursing Services	YES	52	22	29	75.86%	55.77%
470600	Transportation Technologies	YES	9	6	8	75.00%	88.89%
480508	Welding Technologies	YES	91	49	79	62.03%	86.81%

SY 2012 Program Completion Data

NAVIT							
010100	Agricultural Business Management - Agriscience	YES	13	6	6	100.00%	46.15%
510800	Allied Health Services	YES	4	1	2	50.00%	50.00%
520200	Business Mgmt & Admin Services	YES	31	26	29	89.66%	93.55%
520400	Business Operations Support and Assistant	YES	2	2	2	100.00%	100.00%
460400	Construction Technologies	YES	58	42	44	95.45%	75.86%
120500	Culinary Arts	YES	31	29	29	100.00%	93.55%
521900	Design and Merchandising	YES	7	6	7	85.71%	100.00%
151300	Drafting and Design Technologies	YES	31	30	30	100.00%	96.77%
131210	Early Childhood Education	YES	37	28	33	84.85%	89.19%
131200	Education Professions	YES	3	1	1	100.00%	33.33%
430200	Fire Service	YES	19	10	10	100.00%	52.63%
151200	Information Technologies	YES	10	7	8	87.50%	80.00%
430100	Law Public Safety and Security	YES	4	2	4	50.00%	100.00%
521800	Marketing Management and Entrepreneurship	YES	5	5	5	100.00%	100.00%
513900	Nursing Services	YES	37	30	30	100.00%	81.08%
480500	Precision Manufacturing	YES	4	3	4	75.00%	100.00%
470600	Transportation Technologies	YES	45	38	40	95.00%	88.89%
480508	Welding Technologies	YES	54	45	51	88.24%	94.44%
PCJTED							
520300	Accounting and Related Services	YES	6	4	5	80.00%	83.33%
010100	Agricultural Business Management - Agriscience	YES	35	29	31	93.55%	88.57%
510800	Allied Health Services	YES	85	48	75	64.00%	88.24%
410100	Bioscience	YES	47	26	26	100.00%	55.32%
520200	Business Mgmt & Admin Services	YES	38	27	32	84.38%	84.21%
520400	Business Operations Support and Assistant	YES	7	7	7	100.00%	100.00%
460400	Construction Technologies	YES	30	19	23	82.61%	76.67%
120500	Culinary Arts	YES	116	93	102	91.18%	87.93%
521900	Design and Merchandising	YES	31	22	28	78.57%	90.32%
151300	Drafting and Design Technologies	YES	24	17	19	89.47%	79.17%
131210	Early Childhood Education	YES	21	16	19	84.21%	90.48%
131200	Education Professions	YES	13	13	13	100.00%	100.00%
150000	Engineering Sciences	YES	53	44	44	100.00%	83.02%
520800	Financial Services	YES	1	1	1	100.00%	100.00%
430200	Fire Service	YES	15	13	14	92.86%	93.33%
520900	Hospitality Management	YES	8	6	6	100.00%	75.00%
151200	Information Technologies	YES	53	37	42	88.10%	79.25%
430100	Law Public Safety and Security	YES	47	34	43	79.07%	91.49%
521800	Marketing Management and Entrepreneurship	YES	105	89	97	91.75%	92.38%
513900	Nursing Services	YES	75	59	75	78.67%	100.00%
500500	Performing Arts and Entertainment Industry	YES	43	18	20	90.00%	46.51%
480500	Precision Manufacturing	YES	9	8	8	100.00%	88.89%
470600	Transportation Technologies	YES	88	54	66	81.82%	75.00%
480508	Welding Technologies	YES	28	25	26	96.15%	92.86%

SY 2012 Program Completion Data

VACTE							
010100	Agricultural Business Management - Agriscience	YES	9	9	9	100.00%	100.00%
510800	Allied Health Services	YES	7	5	6	83.33%	85.71%
520200	Business Mgmt & Admin Services	YES	36	27	30	90.00%	83.33%
460400	Construction Technologies	YES	6	6	6	100.00%	100.00%
120500	Culinary Arts	YES	12	9	9	100.00%	75.00%
151300	Drafting and Design Technologies	YES	7	7	7	100.00%	100.00%
131200	Education Professions	YES	3	1	1	100.00%	33.33%
430200	Fire Service	YES	8	8	8	100.00%	100.00%
513900	Nursing Services	YES	7	6	7	85.71%	100.00%
500500	Performing Arts and Entertainment Industry	YES	4	1	2	50.00%	50.00%
470600	Transportation Technologies	YES	13	12	12	100.00%	92.31%
480508	Welding Technologies	YES	8	6	6	100.00%	75.00%
WAVE							
010100	Agricultural Business Management - Agriscience	Yes	12	9	10	90.00%	83.33%
510800	Allied Health Services	YES	9	8	8	100.00%	88.89%
520200	Business Mgmt & Admin Services	YES	27	25	27	92.59%	100.00%
520400	Business Operations Support and Assistant	YES	1	1	1	100.00%	100.00%
460400	Construction Technologies	YES	18	16	17	94.12%	94.44%
120500	Culinary Arts	YES	41	38	39	97.44%	95.12%
521900	Design and Merchandising	YES	12	12	12	100.00%	100.00%
151300	Drafting and Design Technologies	YES	11	10	10	100.00%	90.91%
131210	Early Childhood Education	YES	32	23	31	74.19%	96.88%
430200	Fire Service	YES	1	1	1	100.00%	100.00%
520900	Hospitality Management	YES	5	4	4	100.00%	80.00%
151200	Information Technologies	YES	11	9	9	100.00%	81.82%
430100	Law Public Safety and Security	YES	5	5	5	100.00%	100.00%
521800	Marketing Management and Entrepreneurship	YES	15	14	15	93.33%	100.00%
513900	Nursing Services	YES	8	7	7	100.00%	87.50%
470600	Transportation Technologies	YES	14	3	5	60.00%	35.71%
480508	Welding Technologies	YES	7	5	7	71.43%	100.00%

SY 2012 Program Completion Data

West-MEC							
520300	Accounting and Related Services	YES	25	8	11	72.73%	44.00%
010100	Agricultural Business Management - Agriscience	YES	51	36	45	80.00%	88.24%
510800	Allied Health Services	YES	203	82	141	58.16%	69.46%
520200	Business Mgmt & Admin Services	YES	50	30	37	81.08%	74.00%
520400	Business Operations Support and Assistant	YES	1	1	1	100.00%	100.00%
460400	Construction Technologies	YES	59	24	40	60.00%	67.80%
120500	Culinary Arts	YES	557	435	456	95.39%	81.87%
521900	Design and Merchandising	YES	20	10	15	66.67%	75.00%
151300	Drafting and Design Technologies	YES	69	56	64	87.50%	92.75%
131210	Early Childhood Education	YES	101	55	86	63.95%	85.15%
131200	Education Professions	YES	38	32	33	96.97%	86.84%
150000	Engineering Sciences	YES	54	35	41	85.37%	75.93%
520800	Financial Services	YES	1	1	1	100.00%	100.00%
430200	Fire Service	YES	21	14	15	93.33%	71.43%
151200	Information Technologies	YES	92	59	76	77.63%	82.61%
430100	Law Public Safety and Security	YES	86	59	76	77.63%	88.37%
521800	Marketing Management and Entrepreneurship	YES	201	85	103	82.52%	51.24%
513900	Nursing Services	YES	214	160	194	82.47%	90.65%
500500	Performing Arts and Entertainment Industry	YES	9	8	8	100.00%	88.89%
480500	Precision Manufacturing	YES	4	2	2	100.00%	50.00%
470600	Transportation Technologies	YES	109	61	67	91.04%	61.47%
480508	Welding Technologies	YES	14	7	11	63.64%	78.57%
TOTAL CONCENTRATORS IN PROGRAMS WITH ASSESSMENTS			8,258	5,380	6,177	87.10%	74.80%

SY 2012 Program Completion Data

CONCENTRATORS WHO COMPLETED THE COHERENT SEQUENCE IN A PROGRAM WITH NO ASSESSMENT							
Program Number	Program Name	Assessment Available?	Concentrator Completed Coherent Seq of Courses	Program Completion Passed	Program Completion Assessed	Percent Passed	Percent of Completers Assessed
CAVIAT							
100300	Graphic Communications	NO	20		0		0.00%
CAVIT							
100300	Graphic Communications	NO	16		0		0.00%
120400	Cosmetology	NO	8		0		0.00%
CTD							
100200	Multimedia Technology	NO	7		0		0.00%
100300	Graphic Communications	NO	6		0		0.00%
CVIT							
100300	Graphic Communications	NO	6		0		0.00%
EVIT							
100200	Multimedia Technology	NO	146		0		0.00%
100300	Graphic Communications	NO	244		0		0.00%
120400	Cosmetology	NO	185		0		0.00%
150300	Electronic Technologies	NO	10		0		0.00%
510600	Dental Assisting	NO	47		0		0.00%
GIFT							
100300	Graphic Communications	NO	3		0		0.00%
120400	Cosmetology	NO	11		0		0.00%
MIJTED							
100200	Multimedia Technology	NO	0				0.00%
100200	Multimedia Technology	NO	0		0		0.00%

SY 2012 Program Completion Data

NATIVE							
100200	Multimedia Technology	NO	2		0		0.00%
100300	Graphic Communications	NO	18		0		0.00%
120400	Cosmetology	NO	10				
150300	Electronic Technologies	NO	5		0		0.00%
490200	Heavy Equipment Operations	NO	3		0		0.00%
NAVIT							
100200	Multimedia Technology	NO	23		0		0.00%
100300	Graphic Communications	NO	41		0		0.00%
120400	Cosmetology	NO	30		0		0.00%
460300	Electrical and Power Transmission Technologies	NO	4		0		0.00%
490200	Heavy Equipment Operations	NO	7		0		0.00%
PCJTED							
100200	Multimedia Technology	NO	39		0		0.00%
100300	Graphic Communications	NO	98		0		0.00%
120400	Cosmetology	NO	6		0		0.00%
490100	Air Transportation	NO	6		0		0.00%
511500	Mental and Social Health Services	NO	1		0		0.00%
VACTE							
100200	Multimedia Technology	NO	17		0		0.00%
100300	Graphic Communications	NO	42		0		0.00%
WAVE							
100200	Multimedia Technology	NO	7		0		0.00%
100300	Graphic Communications	NO	12		0		0.00%
West-MEC							
100200	Multimedia Technology	NO	52		0		0.00%
100300	Graphic Communications	NO	15		0		0.00%
120400	Cosmetology	NO	94		0		0.00%
510600	Dental Assisting	NO	7		0		0.00%
TOTAL CONCENTRATORS IN PROGRAMS WITHOUT ASSESSMENTS			1,248	0	0		
TOTAL CONCENTRATORS COMPLETED PROGRAMS			9,506	5,380	6,177		

QUESTION 5: The Graduation Rate of Students Enrolled in the Joint District

ARS § 15-393.M.5 “The graduation rate of students enrolled in the joint district.”

Methodology

For the purposes of this report, the definition of graduation rate for federal performance measures has been used. It is as follows:

Numerator: Number of CTE concentrators who graduated in secondary education in the reporting year and were included as graduated in the state’s computation of its graduation rate using 2012 cohort year.

Denominator: Number of CTE concentrators who did not meet the requirements for graduation and left secondary education in the reporting year, *plus* those concentrators that did graduate from secondary education in the 2012 cohort year.

Schools report concentrators who have completed at least two Carnegie Units in a program. The SAIS database is used to extract leave codes for these students. All SAIS IDs that were reported as having left secondary education for one of the following reasons in FY 2012 were used in the graduation calculation:

Leave Codes	Status
G, S7 and W7	Graduated
A, C, W2, S2 W3, S3, W4, S4, W5, S5, W10, S10, W11, S11, W12, S12, W13, S13	Left school, did not meet requirements for graduation

All students who left school for any of the above reasons were included in the denominator. Only students who graduated with either a Year End Code of W7—mid-year graduate, S7—summer graduate or G—end-of-year graduate are counted as graduated in the numerator. Students graduate from their school of residence (member school of a JTED), and do not graduate from a JTED.

2012 JTED Graduation Data Issues

Students who are reported as concentrators and have a cohort year of 2012 (students are assigned a cohort year based on a four-year high school career; in this case the year they would normally graduate) are included in the graduation rate calculation for the purpose of this report. This is done so the CTE graduation rates are comparable to the published graduation rates in the School Report Card. This graduation rate is calculated for those concentrators who were reported as attending a JTED program.

Analysis

Within the parameters identified above, the Career and Technical Education graduation rate for Arizona for FY 2012 was 97.28 as evidenced in the FY 2012 Consolidated Annual Report submitted to The Office of Vocational and Adult Education. The statewide JTED graduation rate is 96.08%. The JTED graduation rate calculation is the same calculation used for the CTE graduation rate and is calculated using approved JTED programs offered at both JTED onsite and offsite campuses.

FY 2012 JTED Graduation Rates

JTED	Numerator	Denominator	Graduation Rate
CAVIAT	473	509	92.93%
CAVIT	706	729	96.84%
CTD	443	450	98.44%
CVIT	184	197	93.40%
EVIT	6212	6443	96.41%
GIFT	245	276	88.77%
MIJTED	352	371	94.88%
NATIVE	601	665	90.38%
NAVIT	745	781	95.39%
PCJTED	3109	3265	95.22%
VACTE	291	302	96.36%
WAVE	594	630	94.29%
WestMEC	5539	5672	97.66%
Total	19494	20290	96.08%
	(graduates)	(leavers)	

A decline was noted relative to the GIFT JTED relative to the prior year’s results. GIFT staff indicated several factors were involved, including –

- The addition of a new member district.
- Small changes in student population can greatly affect percentage amounts in a small rural district. If a district has only 25 students in a program, a change of five students could result in a 20% change relative to aggregate percentage results.
- The closure of an area charter school resulted in an influx of new students to districts with relatively small populations magnifying outcome percentages.

Recommendations

- Continue the current practices of –
 - Comparing current outcomes to the prior year report outcomes.
 - Attempt to determine causal factors where outcomes vary by 5% or more.
 - Utilize SAIS data in an effort to mirror the data used for purposes of the Arizona School Report Card.

QUESTION 6: JTED Career Opportunities

ARS § 15-393.M.6 “A detailed description of the career opportunities available to students after completion of the program offered by the joint district.”

Methodology for CTE Program List

The ADE CTE Section identifies CTE programs with the greatest career potential and opportunities, on a statewide basis, for Arizona’s high school and community college students. These programs are linked to classroom offerings via the FY 2012 Arizona CTE Program List (see Appendix B). The list reflects those programs that offer opportunities for Arizona students to earn a livable wage in gainful employment in Arizona. The list takes three primary factors into consideration:

- High demand occupations: current openings by specific occupation including projected occupation growth
- High skills occupations: job knowledge, skill and ability including academic abilities
- High wage occupations

The list includes two emerging occupational areas for which insufficient information is available from Labor Market Information Statistics for Arizona. However, several statewide reports were used to identify these critical emerging occupational areas in Arizona. The occupational areas that were determined to be new and emerging for Arizona include:

- Bioscience and
- Engineering Sciences

The CTE Program List provides guidance for JTEDs in planning and implementing CTE programs based on the information developed by the Arizona Department of Commerce, Research Administration, in cooperation with the U.S. Department of Labor Bureau of Labor Statistics. The Detailed Occupational Data for all Available Classification of Instructional Programs (CIP) List (see enclosed CD) provides specific wage and occupational detail on hundreds of occupations. JTED districts use this specific data to develop CTE programs. The highest skills, highest wages and highest demand fields of employment were prioritized for the FY 2012 Arizona CTE Program List.

The Research Administration staff at the Arizona Department of Commerce use wage data, projected job openings data, and the O*NET score to formulate the ranked list of CTE Programs. The O*NET is a comprehensive database of worker attributes and job characteristics as well as knowledge, skills and abilities scores for all occupations. The O*NET score is a measure of the skills and knowledge required for the occupations within the Classification of Instructional Programs (CIP), weighted by the number of openings in each occupation. The score provides a comprehensive picture aligning with high skills. The occupations with O*NET scores in the bottom three percent were not included in the formula.

The State Board of Vocational and Technological Education approved the formula for the CTE Program List. The Arizona CTE Program List is updated every two years. The formula for the Arizona CTE Program List is listed below:

- 2 x projected annual job openings for all occupations related to a CIP
- 1 x average wages for all occupations related to a CIP

- 1.5 O*NET Descriptor knowledge, skills and abilities scores for occupations related to a CIP

The calculation method for the CTE Program List:

- Use current nationally validated crosswalk between all occupations (SOC codes) and CIP
- The field of occupations was restricted to those occupations with an education training level 11-6 that goes up through Associate Degree Level. Each occupation has a training level assigned to it by the Bureau of Labor Statistics.
- Use O*NET Descriptor knowledge, skills and abilities scores when calculating the O*NET scores for each occupation.

A JTED may request to have consideration given to specific local needs that are not reflected on the overall state list. These may be highly specialized local employment opportunities i.e., Mining Occupations, Power Plant Maintenance, and others.

Implementation of Career Information/Opportunities

Career opportunities are emphasized through various classroom experiences within the CTE program. JTED students have a variety of resources available in order for them to increase awareness of career opportunities within the state and in their own communities. JTED students have access to an online career and educational planning tool called AzCIS (Arizona Career Information System), which provides current career and educational information for appropriate decision making. The data within the Arizona Career Information System are updated annually to reflect current market information, programs of study, Arizona postsecondary schools information, scholarships, and other related information.

QUESTION 7: Career Placement of Students who have Completed the Program offered by the Joint District

ARS § 15-393.M.4 “A detailed description of the career placement of students who have completed the program offered by the joint district.”

Methodology

The definition of placement for state CTE funding is as follows:

Numerator: Number of CTE concentrators who graduated and were placed in a related placement in postsecondary education or advanced training, in military service, or employment in the second quarter following the program year in which they left secondary education (i.e., placement status for CTE concentrators who graduated in the prior year will be surveyed and reported as placed if they were employed, in postsecondary education or advanced training, or in the military between October 1, 2011 and December 31, 2011)

Denominator: Number of CTE concentrators who graduated in the reporting year.

The **placement survey** is reported for graduates from the prior year and is reported by April 15 of the year following graduation. This report includes names, placement information and other relevant information for CTE concentrators reported as high school graduates the previous year. The placement information is the data used to calculate local and state performance on Arizona’s Performance Measure for Secondary Placement. The placement survey reports three types of placement:

- Postsecondary Education or Advanced Training
- Military
- Employment

A student may be a concentrator in one or more programs, and may have placement information in one or more of the above categories. A student may be reported in as many placements as are applicable to the student’s circumstances at the time the student completes the survey. Only one of these placements can be “related” to the student’s high school CTE occupational standards.

An example of related placement would be: A student completed a business program in high school and then elected to pursue a college business degree or was employed in a business occupation such as an office assistant. State funding is awarded only if the student’s data/records reflect that the student participated in a CTE program, was reported as a concentrator in the same CTE program, graduated and was placed in a related placement in school (continuing education), military field, or work/job.

JTED Placements

The Numerator in the attached tables contains the total number of CTE placements per program where a JTED member school has actual placements in that program. These are students of a JTED member school where the student has matching JTED ADM on SAIS.

The Denominator in the attached table contains the total number of graduated concentrators in an approved JTED program. These are students of a JTED member school where the student has matching JTED ADM on SAIS.

The student data are reported by program per JTED. All of the JTED approved programs that a JTED is offering are listed in each Program Profile Table at the school of residence. Not all CTE programs are offered at every JTED.

All JTED 2011-2012 Related Placement-Graduate Totals

All JTED 2010-2011 Placement-Graduate Totals			
JTED Name	Number of related placements	Number of graduated concentrators	Percent of related placements
CAVIAT	218	365	59.73%
CAVIT	179	321	55.76%
CTD	204	387	52.71%
CVIT	39	101	38.61%
EVIT	2064	2616	78.90%
GIFT	130	171	76.02%
MIJTED	38	66	57.58%
NATIVE	216	449	48.11%
NAVIT	390	709	55.01%
PCJTED	1135	1781	63.73%
VACTE	146	257	56.81%
WAVE	59	129	45.74%
WESTMEC	2299	3606	63.75%
Total	7117	10958	64.95%

FY 2012 JTED Placement Data Issues

A placement survey is completed on all students who were reported as concentrators who graduated in the prior year. The survey is done by the home school and because the program is identified as a JTED program, the placement data could be identified as a JTED record. There are districts that are members of a JTED and offer some programs that are JTED approved, and some that are not JTED approved programs. Concentrators reported are only counted in the placement calculation if they were actually enrolled in a JTED approved program at the member school or in an offsite facility that is managed by the JTED.

Analysis

The placement analysis includes only prior-year graduates who were placed in a postsecondary or advanced training facility, in the military or work, using the skills they were taught in their JTED approved program. The analysis that is done is on a per-student

(unduplicated) related placement basis. *The average related placement rate for all JTED students was 66.68 percent, up slightly from 64.95 percent the previous year.* Concentrators used in this calculation are students who have completed at least two Carnegie Units in a program. Because JTEDs are regional, the economy and more specifically the unemployment rate, can affect placement in some regions. Higher unemployment rates and socioeconomic levels can have an effect on the ability for students to remain in school or find jobs.

Placement can be dependent on the age of a program. A new program may not have placements for at least two or three years, depending on the coherent sequence of courses required to teach all standards.

Several factors appear to contribute to annual changes in a JTED's placement percentage -

- One factor that caused initial changes was related to the quality of concentrator data being received.

Historically, many schools incorrectly reported one semester as 0.5 of a Carnegie Unit and two semesters as one Carnegie Unit, when in fact in other than a “block” delivery mode, three semesters utilizing a traditional instruction period is required to equal one Carnegie Unit. As a result, we are seeing fewer concentrators reported in some districts. As everyone “comes on board” relative to a Carnegie Unit being 120 hours, fluctuations due to improvements in data quality should level off; this appears to be taking place. The percent change relative to 2011 was positive but small.

- A second factor is the size of the JTED member districts. In a small district a small increase or decrease in graduation numbers, due to population changes, can cause percentage outcomes to appear to be significant when in fact the driving reason for change is district size.

In a district with 60 concentrators, a change of 6 students can result in a 10% change, relative to the change being only half this amount for a district with 120 concentrators.

- In addition, adding new programs can result in students migrating from existing program offerings to new programs; this means lower concentrator numbers for at least the new programs that affect member district's overall rates. New programs take several years to produce concentrators and in turn, placements.

The ADE is exploring data collection agreements with state and industry organizations such as the Automotive Service Excellence (ASE) and the Arizona Board of Nursing to provide third party assessment systems to measure our student skill attainment success. These types of data collection agreements should also increase our success in capturing additional student placement information.

Recommendations

None at this time.

APPENDIX

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2011-2012 Course Approval Application Process Instruction Page Joint Technical Education Districts

Each Joint Technical Education District (JTED) must submit a “*Course Approval Application*” for all new courses to be offered school year 2011-2012 by February 25, 2011.

1. Complete “Signature Page.” The Signature Page:

- Identifies the JTED, provides address and contact information
- Assures the Arizona Department of Education that the JTED has completed the required Intergovernmental Agreement (IGA) or other written contract with member districts in compliance with A.R.S. 15-393 (L)(1-10). The IGA or other written contract must completely and accurately specify the following:
 - *Financial provisions and the format for the billing of all services*
 - *Accountability provisions.*
 - *Responsibilities of each JTED, each school district, each charter school and each community college that is a party to the IGA or other written contract.*
 - *Type of instruction that will be provided.*
 - *Quality of instruction that will be provided*
 - *Transportation services that will be provided and the manner in which transportation costs will be paid.*
 - *Amount the JTED will contribute to a course, and the amount of support required by the school district or community college.*
 - *Services provided by the JTED, the school district, the charter school or the community college district be proportionally calculated in the cost of delivering the service.*
 - *Payment for services shall not exceed the cost of the services provided.*
 - *Initial IGA or written contract and any addendums between the governing board of a JTED and another JTED, a school district, a charter school, or a community college district be submitted by the JTED to the Joint Legislative Budget Committee (JLBC) for review.*
- Requires a list of all member districts for which an IGA or other written contract has been completed, approved by the governing board and submitted to the JLBC for review.
- Requires the signature of the JTED Superintendent assuring that all information contained in the Application for Course Approval is accurate.
- The “signature page” must be printed out, signed by the JTED Superintendent and a hard copy mailed to:

Career Pathways

Career and Technical Education

**Arizona Department of Education
1535 W. Jefferson,
Phoenix, AZ 85007
Attention: Jan Brite**

- This page is the only portion of the Application for Course Approval that has to be mailed hardcopy. The Program and Course Information portion can be emailed. See “Submit by email” icon on the document.

- 2. Complete a “Program and Course Information” page for each new program that will be offered 2011-2012 through the JTED:**
 - Only one Program and Course Information page needs to be completed for each new program, even if the program or courses are offered at multiple sites.
 - Select the new program name and CIP code from the drop down table.
 - Make appropriate selections for the proceeding information.
 - If program is using either postsecondary standards or standards other than ADE Career and Technical Education state-designated standards, a copy of the standards must be submitted via email or regular mail.
 - In the bottom table of this page please enter the sequence of courses taught in this program by selecting the course and CIP Code from the drop down table.
 - Each course must be entered for approval.
 - If the local course title is different from the state title, enter the local course title in the designated cell.
 - Enter location where course is taught (i.e. name of high school, name of community college or central site).
 - If course is taught at multiple locations, please enter course information for each site. Table will expand to accommodate multiple entries.
 - Check appropriate box for the remaining information for each site listed.
 - Print copy for local record. This form will save as a data file only. The form format will not save.

- 3. Confirm Specialized Equipment and Instructional Materials List Statement:**
 - ARS 15-391(3)(c) requires that all courses approved for JTED funding must require “Specialized equipment or instructional materials above and beyond the scope and cost of a standard educational course.”
 - Indicate in the last cell of the course table if each course meets this requirement.
 - Specialized Equipment and Instructional Materials lists must be on file at the local site and available for review as part of the course approval process.

- 4. Submit completed Course Approval Application by clicking the “Submit by Email” icon:**
 - Submissions are due **February 25, 2011**

- 5. Upon receipt of the Course Approval Application, the assigned area State Supervisor will review within 90-days.**

2011-2012 Course Approval Application Joint Technical Education Districts																															
<p>Course Approval Application is due February 25, 2011</p> <p>Name of JTED / CTDS: _____</p> <p>JTED Mailing Address / City / ZIP: _____</p> <p>JTED Physical Address (if different): _____</p> <p>JTED Superintendent / Phone / Email: _____</p> <p>Contact: _____ Phone: _____ Email: _____</p>																															
<p>The Joint Technical Education District identified above assures the Arizona Department of Education Career and Technical Education Division that they comply with the following:</p> <p><input type="checkbox"/> All reporting requirements as identified by the Arizona Department of Education and cited in HB2700 and related statutes.</p> <p><input type="checkbox"/> Intergovernmental Agreement (IGA) with participating educational institutions will be written, approved and signed by the local governing board and the JTED governing board.</p> <p><input type="checkbox"/> IGA will be submitted to the Joint Legislative Budget Committee (JLBC) for review.</p> <p><input type="checkbox"/> All information contained in this Application for Course Approval is complete and accurate.</p> <p style="text-align: center;">_____</p> <p style="display: flex; justify-content: space-between;">Signature of Joint Technical District Superintendent Date of Signature</p>																															
<p>List below all participating education institutions for which an IGA will be completed:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%; text-align: center;">Education Institution Name</th> <th style="width: 25%; text-align: center;">CTDS Number</th> <th style="width: 25%; text-align: center;">Education Institution Name</th> <th style="width: 25%; text-align: center;">CTDS Number</th> </tr> </thead> <tbody> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> </tbody> </table>				Education Institution Name	CTDS Number	Education Institution Name	CTDS Number	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
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<p>Important Notes:</p> <ul style="list-style-type: none"> * This signature page must be signed and mailed to: Career and Technical Education - Arizona Department of Education, Attn: Jan Brite 1535 W Jefferson Avenue, Bin #42, Phoenix, AZ 85007 * This application is for JTED ADM funding purposes only. * For programs to be eligible to use Carl Perkins Basic Grant funds and generate State Block (Priority) funds, a "Notification of Intent" or "Notification of Participation" form must be submitted by each participating high school district. 																															

ARIZONA CAREER AND TECHNICAL EDUCATION
FY 2012 PROGRAM LIST

Rank	CIP	2012 CTE Program List	Funding Weight
E	15.0000	Engineering Sciences	1.25
E	41.0100	Bioscience	1.25
1	43.0200	Fire Service	
2	46.0300	Electrical and Power Transmission Technologies	
3	51.0900	Diagnostic and Intervention Technologies	
4	43.0100	Law, Public Safety and Security	1.0
5	51.3900	Nursing Services	
6	52.0200	Business Management and Administration Services	
7	47.0600	Transportation Technologies	
8	51.0600	Dental Assisting	
9	01.0100	Agricultural Business Management - Agriscience	
10	52.1900	Design and Merchandising	
11	15.1200	Information Technologies	
12	15.1300	Drafting and Design Technologies	
13	47.0300	Heavy/Industrial Equipment Maintenance Technologies	
14	47.0200	Heating, Ventilation and Air Conditioning	0.90
15	49.0100	Air Transportation	
16	49.0200	Heavy Equipment Operations	
17	46.0400	Construction Technologies	
18	51.0800	Allied Health Services	
19	15.0300	Electronic Technologies	
20	52.1800	Marketing, Management and Entrepreneurship	
21	52.0400	Business Operations Support and Assistant Services	
22	52.0900	Hospitality Management	
23	52.0800	Financial Services	
24	47.0100	Electrical Systems Installation and Maintenance Technologies	0.80
25	12.0500	Culinary Arts	
26	10.0200	Multimedia Technologies	
27	48.0500	Precision Manufacturing	
28	48.0508	Welding Technologies	
29	51.1500	Mental and Social Health Services	
30	52.0300	Accounting and Related Services	
31	12.0400	Cosmetology	
32	13.1200	Education and Training: Education Professions	
33	13.1210	Education and Training: Early Childhood Education	
34	51.3500	Therapeutic Massage	0.80
35	50.0500	Performing Arts and Entertainment Industry	
36	10.0300	Graphic Communications	

Purple= Emerging Program

Blue= Existing Program with Option or Sequence Change

Orange= Existing Program Name and Option change

Gold= Existing Program with CIP Change

Accounting and Related Services

52.0300

The **Accounting and Related Services** instructional program prepares students to provide technical support to professional accountants and other financial management personnel. In addition, students will possess the foundation skills needed for postsecondary studies in any area of business. Instruction includes general accounting principles and practices, posting transactions to accounts, record keeping systems and accounting software operation. An integrated approach to teaching and learning is recommended as students develop interpersonal relations, career development skills and technical knowledge and skills associated with functions essential for a business operation. Students completing this program will be prepared to participate in teams and implement effective solutions to problems and business-related issues. The program is designed and delivered as a coherent sequence of school-based and work-based supervised learning. Students learn leadership skills and develop their leadership abilities through participation in the state-recognized Career and Technical Student Organization, FBLA.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All Career Preparation state-designated Accounting and Related Services standards are addressed in this instructional sequence. Schools with ADE approved Accounting and Related Services programs will utilize all of the industry-validated state standards for Accounting and Related Services in the design and delivery of the following recommended sequence of courses.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

52.0300.10 **Introduction to Business & Accounting:** This course is recommended for students who have an interest in business and a desire to understand the financial aspects of business organizations. Students will be introduced to general accounting principles and practices. A computer with business applications software is used by students to perform business tasks.

-and-

52.0300.20 **Basic Accounting:** Students enrolled in this course will develop skills and knowledge required to compute, classify and record numerical data, to keep accurate financial records for corporations and other forms of business. A computer with business applications and accounting software is used by students to perform accounting and related business tasks.

And program may elect to add:

52.0300.30 **Advanced Accounting:** Students will apply their knowledge of accounting to integrated learning experiences allowing students to demonstrate the full range of Accounting and Related Services State standards through projects/simulations/school-based enterprise experiences. A computer is an essential tool for students in this class to effectively complete accounting tasks and financial analysis activities.

And program may elect to add:

52.0300.75 **Accounting and Related Services - Internship:** This course provides students an opportunity to apply previously developed accounting knowledge and skills while participating in a structured work experience. Students may be paid or unpaid for their work experience.

-or-

52.0300.80

Accounting and Related Services - Cooperative Education: This experience is designed to provide students with both school-based and work-based learning. Training plans and training agreements are based on previously developed accounting knowledge and skills. Students generally work a minimum of 15 hours a week.

Agricultural Business Management – Agriscience

01.0100

The **Agricultural Business Management - Agriscience** program is designed to prepare students for employment in the Agriculture, Food and Natural Resources career cluster as defined by the USDE Office of Vocational and Adult Education. Students completing this program will possess the appropriate cluster technical knowledge and skills associated with the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources. In addition to the required technical skills, students will also develop leadership, advanced employability, critical thinking, applied academic, and life management skills. The program utilizes a delivery system made up of three essential and required components: formal instruction, experiential education through Supervised Agricultural Experiences (SAE), leadership and personal development through the Career and Technical Student Organization, FFA. A model for this delivery system appears in the approved Curriculum Framework booklet. The Agricultural Business Management-Agriscience program is a three Carnegie unit program. Three courses in must be shown in the program sequence of instruction for program approval.

The following describes the recommended Career Preparation courses developed from industry-validated skills for initial employment or continued related education. All the state-designated Agricultural Business Management - Agriscience standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

01.0100.10 **Agricultural Business Management - Introduction to Applied Biological Systems:** Students must attain these Standards in a coherent sequence of courses 01.0100.10 and 01.0100.12. Biology credit for college entrance and secondary graduation is available if these standards are met and a Program Review has been completed. It is required that these standards are covered in a two-course sequence during the 9th and 10th grades.

-and-

01.0100.12 **Agricultural Business Management - Applied Biological Systems:** Students must attain these Standards in a coherent sequence of courses 01.0100.10 and 01.0100.12. Biology credit for college entrance and secondary graduation is available if these standards are met and a Program Review has been completed. It is required that these standards are covered in a two-course sequence during the 9th and 10th grades.

-and-

01.0100.14

Agricultural Business Management - Agriscience: These Standards are designed to deliver the lab science standards associated with the Agriculture, Food and Natural Resources career cluster. Lab science credit for college entrance and secondary graduation is available if these standards are met and a Program Review has been completed. It is recommended that these standards be covered in course sequences during the 10th through 12th grades. This specific course is the 11th grade course.

-and-

Option A

01.0100.20

Food Products and Processing Systems: Prepares students for careers in food processing and preserving, packaging, distribution, government monitoring & regulation.

-or-

Option B

01.0100.30

Plant Systems: Prepares students for careers in Agronomic, Horticulture, Forestry, Turf, Viticulture, Soils, etc.

-or-

Option C

01.0100.40

Animal Systems: Prepares students for careers in large animals, small animals, wildlife animals, and research animals.

-or-

Option D

01.0100.50

Natural Resources Systems: Prepares students for careers in Habitat Conservation, Forest Products, Parks and Recreation, Mining, Environmental Services, Fisheries, Soil Conservation, etc.

-or-

Option E

01.0100.60

Power, Structural and Technical Systems: Power, Structures, Controls, Geospatial Technology, Computer Systems, Electronics, Hydraulics, Pneumatics, etc.

-or-

Option F

01.0100.90

Agribusiness Systems: Prepares students for careers in Sales, Service, Farm and Ranch Management, Entrepreneurship, Economics, etc.

-or-

Option G

01.0100.00

Environmental Service Systems: Prepares students for careers in Pollution Prevention, Water & Air Quality, Hazardous Materials, Solid Waste Management, Health & Safety Sanitation, etc.

And program may elect to add:

01.0100.75

Agricultural Business Management - Agriscience - Internship: This course provides students an opportunity to apply previously developed knowledge and skill in Agricultural Business Management - Agriscience into a structured work experience within the same field of study. This work experience doesn't necessarily require classroom instruction and may be paid or unpaid. This is part of the student's SAE component.

-or-

01.0100.80

Agricultural Business Management - Agriscience - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Agricultural Business Management - Agriscience program.

Air Transportation**49.0100**

The **Air Transportation** program will focus on the general study of aviation and the aviation industry. The content includes communications and human relations, safe and efficient work practices, Federal Aviation Administration Pilot certification procedures, aircraft systems and components, flight safety, physics and aerodynamics and instrumentation. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience and leadership and personal development through the Career and Technical Student Organization, SkillsUSA.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 49.0100.10** **Air Transportation I** - This course will focus on the general study of the aviation industry, including in-flight and ground support operations, radio communications, navigation procedures and systems, airways safety and traffic regulations and governmental rules and regulations pertaining to piloting aircraft.
- and-**
- 49.0100.20** **Air Transportation II** - This course will focus on preparing individuals to apply technical knowledge and skills to flying and/or navigation of fixed wing aircraft. Including instruction in principles of aircraft design and performance, aircraft flight systems and controls, flight crew operations and procedures and radio communications.
- And program may elect to add:**
- 49.0100.75** **Air Transportation – Internship** - This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Air Transportation knowledge and skills.
- or-**
- 49.0100.80** **Air Transportation - Cooperative Education** - This course utilizes cooperative education methodology to combine school-based and supervised work-based learning experiences related to the standards identified for Air Transportation.

Allied Health Services**51.0800**

The **Allied Health Services** program prepares students to perform technical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of select healthcare services. An integrated approach to teaching and learning is provided as students develop interpersonal relations, career development skills and technical knowledge and skills associated with a core curriculum and pathway options of Option A – Pharmacy Support Services, Option B – Laboratory Assisting, Option C – Medical Imaging Support Services (standards to be developed), Option D – Sports Medicine and Rehabilitation Services, or Option E – Medical Assisting. Students completing one of these options will be prepared to participate in teams, solve problems, think critically and implement effective solutions. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience, leadership and personal development through the Career and Technical Student Organization, HOSA.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the state-mandated Career Preparation standards are addressed in this instructional sequence. Allied Health Services consists of five program options, each with its own set of Career Preparation standards. At least two Carnegie Units will be earned in the Career Preparation sequence of courses.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

51.0800.10 **Fundamentals of Allied Health Services:** This course prepares students to apply academic and technical knowledge and skills of the Allied Health in a clinical, medical or retail setting or to continue into postsecondary education.

-and-

Option A

51.0800.20 **Pharmacy Support Services Applications:** This course prepares students to apply academic and technical knowledge and skills of the Pharmacy Technician in a clinical, medical or retail setting or to continue into postsecondary education.

-or-

Option B

51.0800.30 **Laboratory Assisting Applications:** This course prepares students to apply academic and technical knowledge and skills of the Laboratory Assisting in a clinical, medical or retail setting or to continue into postsecondary education.

-or-

Option C

(Standards to be developed)

51.0800.40 Medical Imaging Support Services Applications: This course prepares students to apply academic and technical knowledge and skills of the Medical Imaging Technical Assistant in a clinical or medical setting or to continue into postsecondary education.

-or-

Option D

51.0800.50 Sports Medicine & Rehabilitation Services Applications: This course prepares students to apply academic and technical knowledge and skills of Fitness Trainer or Physical Therapy Aide in a clinical, medical or retail setting or to continue into postsecondary education.

-or-

Option E

51.0800.60 Medical Assisting Services Applications: This course will prepare students to apply academic and technical knowledge and skills of the Medical Assistant in a clinical or medical setting or to continue into postsecondary education.

And program may elect to add:

51.0800.75 Allied Health Services - Internship: This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience within the specific option they have studied. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.

-or-

51.0800.80 Allied Health Services - Cooperative Education: This course utilizes cooperative education methodology to combine school-based and supervised work-based learning identified for students within the specific option they have studied.

Bioscience
41.0100

The **Bioscience** program prepares individuals to apply scientific principals and technical skills in support of biologists and biotechnologists in research, industrial, and government settings. Program includes instruction in: fermentation technology, cell culturing, protein purification, biologic synthesis, assaying and testing, quality control, industrial microbiology, bio-processing, chromatography and bio-separation, genetic technology, laboratory and hazardous materials safety, and computer applications and test equipment operation and maintenance. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience and leadership and personal development through the Career and Technical Student Organization, Health Occupations Students of America (HOSA).

The following describes the recommended Career Preparation courses developed from industry-validated skills for initial employment or continued related education. All the state-designated Bioscience standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 41.0100.10 Introduction to Bioscience** - This course introduces students to the foundational techniques for Bioscience.
- and-**
- 41.0100.20 Advanced Bioscience:** Prepares students for careers in the applied bioscience industry.
- And program may elect to add:**
- 41.0100.75 Bioscience – Internship** - This course provides students an opportunity to apply previously developed knowledge and skill in Bioscience into a structured work experience within the same field of study. This work experience doesn't necessarily require classroom instruction and may be paid or unpaid.
- or-**
- 41.0100.80 Bioscience - Cooperative Education:** This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Bioscience program.

Business Management and Administrative Services

52.0200

The **Business Management and Administrative Services** instructional program prepares students to perform technical support services involved with planning, organizing, researching, directing and controlling functions related to the production, buying and selling of goods and services in domestic and international markets. In addition students will possess the foundation skills needed for postsecondary studies in any area of business. An integrated approach to teaching and learning is recommended as students develop interpersonal relations, career development skills and technical knowledge and skills associated with functions essential for a business operation. Students completing this program will be prepared to participate in teams to solve problems and make decisions about business related issues. The program is designed and delivered as a coherent sequence of school-based and work-based experiences. Leadership skills are developed through the state recognized Career and Technical Student Organizations, FBLA or DECA.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 52.0200.10 Introduction to Business Management and Administrative Services:** This course is recommended for students who have an interest in business and a desire to understand how business works in today's global economy. This course prepares students with technical skills and knowledge related to the economics, management and administrative support functions of business, which cut across industries. A computer with business applications software is used by students as a tool to perform business tasks.
- and-**

52.0200.20 Basic Business Management and Administrative Services: Students enrolled in this course will develop knowledge and skills in applied research, business communications, principles of business law, public relations, information management, meeting planning and office supervisory skills. A computer with business applications software is used by students to perform project management and other business tasks.

And programs may elect to add:

52.0200.30 Advanced Business Management and Administrative Services: This course includes instruction in business planning and operations. Computer software applications are applied to the technical support functions essential to the operation of an enterprise and buying and selling of goods and services.

And programs may elect to add:

52.0200.75 Business Management and Administrative Services – Internship - This course provides students an opportunity to apply previously developed business management & administrative services knowledge and skills while participating in a structured work experience. Students may be paid or unpaid for their work experience.

-or-

52.0200.80 Business Management and Administrative Services - Cooperative Education: This experience is designed to provide students with both school-based and work-based learning. Training plans and training agreements are based on previously developed business management and administrative knowledge and skills. Students generally work a minimum of 15 hours a week.

Business Operations Support and Assistant Services

52.0400

The **Business Operations Support and Assistant Services** program is designed to prepare students for instruction in business communications, principles of business law, word processing, data entry, office machine operations, office procedures, public relations, filing, records management and report preparation.

An integrated approach of teaching and learning is provided as students enhance their technical knowledge and skills that are associated with functions within Business Operations Support and Assistant Service occupations including Administrative Assistant, Executive Assistant, Office Manager, Information Assistant, Desktop Publisher, Customer Service Assistant, Data Entry Specialist, Receptionist, Computer Operator or Word Processor. In addition to the occupation related skills, students completing this program will also develop advanced critical thinking, applied academic, interpersonal relations, life management, business, economic, and leadership skills required for the 21st century workplace.

The Business Operations Support and Assistant Services program consists of a core curriculum, with a two Carnegie Unit Curriculum Framework. The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experiences, and the Career and Technical Student Organization, FBLA.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment continued or continued related education. All

Career Preparation state-designated Business Operations Support and Assistant Service standards are addressed in the instructional sequence. Schools with ADE approved Business Operations Support and Assistant Services programs will utilize all of the industry-validated state standards and measurement criteria for this program in the design and delivery of the following recommended sequence of courses.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 52.0400.10 Introduction to Business Operations Support and Assistant Services:** This course is recommended for students who have an interest in Administration and Information Support to learn how to utilize technology to perform and coordinate the administrative activities of an office and to ensure that information is collected and disseminated to staff and clients effectively and efficiently.
- and-**
- 52.0400.20 Advanced Business Operations Support and Assistant Services:** Students enrolled in this course will develop advanced knowledge and skills in desktop publishing, office procedures, transcription, public relations, records management and customer service while integrating the skills attained in the Introduction to Business Operations Support and Assistant Services course.
- And program may elect to add:***
- 52.0400.75 Business Operations Support and Assistant Services – Internship -** This course provides BOSAS students an opportunity to engage in learning through participation in a structured work experience that can be either paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed BOSAS knowledge and skills. However, the Internship does require applications directly related to the Technical Standards of the Business Operation Support and Assistant Services program.
- or-**
- 52.0400.80 Business Operations Support and Assistant Services - Cooperative Education:** This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Marketing, Management, and Entrepreneurship program. Students generally work a minimum of 15 hours a week.

Construction Technologies

46.0400

The **Construction Technologies** The Construction Technologies program is designed to prepare individuals to apply technical knowledge and skills in the building industry which include units of instruction in carpentry, electrical, masonry/brick laying, concrete finishing, HVAC and plumbing, floor systems, wall and ceiling framing, roof framing, site layout, exterior finish, cabinetry and roofing applications. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience and leadership and personal development through the Career and Technical Student Organization, SkillsUSA. The following describes the recommended courses developed from industry-validated skills necessary for initial employment or continued related education.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

46.0400.10 Construction Technologies Core Curriculum: This foundation course will prepare students to use a wide variety of construction tools and equipment and maintain a safe work environment. The student will develop an understanding of construction math, financial operations, reading blueprints, basic rigging and basic construction techniques. The student will develop skills in oral and written communication as they relate to the construction industry. This course is designed to help students develop an enhanced understanding of teamwork, employability skills and career opportunities in the construction field.

-and-

Option A

46.0400.20 Advanced Construction Technologies: This course prepares the individual to apply and demonstrate advanced technical knowledge and skills in various types of construction. This lab based course will provide the students an opportunity to participate in the planning, design and completion of project based activities. i.e. electrical, masonry/brick laying, concrete finishing, HVAC, plumbing, floor systems, wall and ceiling framing, site layout, interior and exterior finish and roof applications.

-or-

Option B

46.0400.30 Carpentry I: This course prepares the individual to apply and demonstrate advanced technical knowledge and skills to layout, cut fabricate, erect, install and repair wooden structures and fixtures, using hand and power tools. Includes instruction in technical mathematics, framing, construction materials and selection, job estimating, blueprint reading, foundations and roughing-in, finish carpentry techniques and applicable codes and standards.

-or-

Option C

46.0400.40 Cabinetmaking I: This course prepares the individual to apply and demonstrate advanced technical knowledge and skills. This lab based course will provide the students an opportunity to participate in the planning, design and completion of project based activities. This course prepares students for advanced technical knowledge and skills using a variety of cabinetmaking techniques and equipment.

And program may elect to add:

46.0400.75 Construction Technologies - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Construction Technologies knowledge and skills.

-or-

46.0400.80 Construction Technologies - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences, directly related to the standards identified for the Construction Technologies program.

Cosmetology
12.0400

The **Cosmetology** instructional program prepares students to perform technical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of cosmetology services. An integrated approach to teaching and learning is provided as students develop interpersonal relations, career development skills and technical knowledge and skills associated with careers in this field. Students completing this program will be prepared to participate in teams, solve problems think critically and implement effective solutions. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience and personal development through the Career and Technical Student Organization, SkillsUSA.

The following describes a recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the Career Preparation state-designated Cosmetology standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 12.0400.10 Fundamentals of Cosmetology:** This course introduces students to careers in Cosmetology by preparing them to apply academic, employability and technical knowledge and skills related to common industry standards and practices.
- and-**
- 12.0400.20 Cosmetology - Advanced Applications:** This course introduces students to careers in Cosmetology by preparing them to apply academic, employability and technical knowledge and skills related to common industry standards and practices.
- And program may elect to add:***
- 12.0400.75 Cosmetology - Internship:** This course provides students an opportunity to apply previously developed knowledge and skill in Cosmetology into a structured work experience. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.
- or-**
- 12.0400.80 Cosmetology - Cooperative Education:** This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards for the Cosmetology program.

Culinary Arts
12.0500

The **Culinary Arts** program is designed to prepare students to apply technical knowledge and skills required for food production and service occupations in institutional and commercial food establishments. Students completing this program will possess the technical knowledge and skills required for planning, selecting, storing, purchasing, preparing and serving quality food products. Nutritive values, safety and sanitation procedures, use of commercial equipment, serving techniques, special diets and management of food establishments will also be studied. In addition to technical skills, students completing this program will also develop advanced critical thinking, applied academic, career development, life and employability skills, business, economic, and leadership skills required for culinary arts occupations. The program utilizes a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience, and the Career and Technical Student Organization, FCCLA and SkillsUSA.

The following describes a recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the state-designated Culinary Arts standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 12.0500.10** **Fundamentals of Culinary Arts:** This course prepares students to serve under the supervision of food service professionals as kitchen support staff and commercial food preparation workers. It includes instruction in kitchen equipment, organization and operations, sanitation, quality control, quantity food preparation and cooking skills.
- and-**
- 12.0500.20** **Culinary Arts Applications:** This course prepares students with advanced applications in kitchen equipment, organization and operations, sanitation, quality control, quantity food preparation and cooking skills. Additionally, students have training in business operations of a food and beverage operation.
- And program may elect to add:**
- 12.0500.75** **Culinary Arts - Internship:** This course provides students an opportunity to apply previously developed knowledge and skills into a structured work experience. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders who have completed at least one Carnegie unit of study in the Culinary Arts program.
- or-**
- 12.0500.80** **Culinary Arts - Cooperative Education:** This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards for the Culinary Arts program.

Dental Assisting
51.0600

The **Dental Assisting** program prepares students to perform technical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of medical assisting healthcare services - both front office and clinical responsibilities. An integrated approach to teaching and learning is provided as students develop interpersonal relations, career development skills and technical knowledge and skills associated with a dental assistant. Students completing this program will be prepared to participate in teams, solve problems, think critically, and implement effective solutions. The program will be designed and delivered as a coherent sequence of experiences using technical instruction, experiential learning, supervised clinical experience, and leadership and personal development through the career and technical student organization, HOSA.

The following describes the recommended sequence of courses yet to be developed that will be necessary for initial employment or continued related education.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 51.0600.10 Fundamentals of Dental Assisting:** This course prepares students to apply academic, technical knowledge and skills of the Dental Assistant in a clinical or dental office setting or to continue into postsecondary education.
- and-**
- 51.0600.20 Dental Assisting - Advanced Applications:** This course prepares students to apply academic, technical knowledge and skills of the Dental Assistant in a clinical or dental office setting or to continue into postsecondary education.
- And program may elect to add:**
- 51.0600.75 Dental Assisting - Internship:** This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience within the specific option they have studied. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.
- or-**
- 51.0600.80 Dental Assisting - Cooperative Education:** This course utilizes cooperative education methodology to combine school-based and supervised work-based learning identified for students within the specific program they have studied.

Design and Merchandising**52.1900**

The **Design and Merchandising** program is designed to prepare students for employment or advanced postsecondary coursework in design production; apparel or home furnishings sales and manufacturing; custom fashion or interior design; supervisory positions in home furnishings and apparel manufacturing; and as buyers for retail establishments. A student completing this program will possess the technical knowledge and skills associated with fashion or interior design/production and selection, wholesale purchasing, sales and promotion. In addition to technical skills, students completing this program will also develop advanced critical thinking, career development, applied academic, life and employability skills, basic business practices and leadership skills required for entry into fashion or interior design and merchandising occupations. The program utilizes a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience and the Career and Technical Student Organization, FCCLA.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the state-designated Design and Merchandising standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

52.1900.10 Fundamentals of Design and Merchandising: This course introduces students to the technical knowledge and skills associated with design principles, production, selection, marketing principles, display, purchase, sales, promotion, construction, textile science and business practices.

-and-

Option A

52.1900.20 Fashion Design and Merchandising Applications: This course is designed for students to apply advanced occupational skills in fashion design, production, selection, marketing, display, purchase, sales, promotion and materials selection.

-or-

Option B

52.1900.30 Interior Design and Merchandising Applications: This course is designed for students to apply advanced occupational skills in interior design plans and drawings, furnishings and materials selection, marketing, display, purchasing, sales, promotion and business practices.

And program may elect to add:

52.1900.75 Design and Merchandising - Internship: This course provides students an opportunity to apply previously developed knowledge and skills into a structured work experience within the specific option they have studied. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders who have completed at least one Carnegie unit of study in the Design and Merchandising program.

-or-

52.1900.80 Design and Merchandising - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Design and Merchandising program option.

Diagnostic and Intervention Technologies
51.0900

The **Diagnostic and Intervention Technologies** program is composed of three options: Respiratory Therapy Technician, Emergency Medical Paramedics and Surgical Technician. Students completing this program will be prepared to participate in teams, solve problems, think critically and implement effective solutions. The program will be designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience, leadership and personal development through the Career and Technical Student Organization, HOSA.

These options will be designed to prepare high school students with the foundations in knowledge and technical skills needed to help prepare them to continue their education toward their chosen option by successfully completing an appropriate postsecondary program. Affiliations with local community college programs can provide high school students with dual or concurrent credit that can be applied toward their postsecondary certificate or degree. The following describes a recommended sequence of courses. All the state-mandated Career Preparation standards are yet to be developed.

The Diagnostic and Intervention Technologies program consists of three options, each of which will have its own set of Career Preparation standards (standards to be developed). In the new delivery system, at least two Carnegie Units will be earned in the Career Preparation sequence of courses.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

Option A

51.0900.20 **Fundamentals of Respiratory Therapy Technician:** This course, when developed, will help prepare students to continue their education toward becoming a Respiratory Therapy Technician by completing an appropriate postsecondary program.

-and-

51.0900.25 **Respiratory Therapy Technician - Advanced Applications:** This course, when developed, will help prepare students to continue their education toward becoming a Respiratory Therapy Technician by completing an appropriate postsecondary program.

-or-

Option B

51.0900.30 **Fundamentals of Emergency Medical Services:** This course, when developed, will help prepare students to continue their education toward becoming an Emergency Medical Paramedic by completing an appropriate postsecondary program.

-and-

51.0900.35 Emergency Medical Services - Advanced Applications: This course, when developed, will help prepare students to continue their education toward becoming an Emergency Medical Paramedic by completing an appropriate postsecondary program.

-or-

Option C

51.0900.40 Fundamentals of Surgical Technicians: This course, when developed, will help prepare students to continue their education toward becoming a Surgical Technician by completing an appropriate postsecondary program.

-and-

51.0900.45 Surgical Technicians - Advanced Applications: This course, when developed, will help prepare students to continue their education toward becoming a Surgical Technician by completing an appropriate postsecondary program.

And program may elect to add:

51.0900.75 Diagnostic & Intervention Technologies - Internship: This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience within the specific option they have studied. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.

-or-

51.0900.80 Diagnostic & Intervention Technologies - Cooperative Education: This course utilizes cooperative education methodology to combine school-based and supervised work-based learning identified for students within the specific option they have studied.

Drafting and Design Technology

15.1300

The **Drafting and Design Technology** program is designed to prepare students to apply technical skills via computer assisted design and drafting to create two-dimensional and three-dimensional engineering designs. It includes instruction in specification interpretation, dimensioning techniques, drafting calculations, material estimation, technical communications, and computer applications. In addition to the occupation related skills, students completing this program will develop advanced critical thinking, applied academics, interpersonal relations, life management, and business, economic, and leadership skills required for the 21st century workplace. The Drafting and Design Technology program consists of a core curriculum and four areas of specialization for a student to choose from: Option A) Architectural Drafting, Option B) Civil Drafting, Option C) Electronics Drafting, and Option D) Mechanical Drafting. The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience, and the Career and Technical Student Organization, SkillsUSA.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Drafting and Design Technology standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

15.1300.10 Drafting and Design Technology Fundamentals: This course prepares students to apply technical knowledge and skills to plan and prepare scale interpretations of engineering, design and architectural projects. It includes instruction in creating layouts and designs, blueprints and renderings and in the use of computer-assisted design programs. In addition to knowledge of drafting technologies, students will have the opportunity to place special emphasis on more specific services and/or industries in which they have an interest.

-and-

One of the following Career Preparation courses (.20, .30, .40 or .50) will be included as part of the instructional sequence for this program:

Option A

15.1300.20 Architectural Drafting: This course prepares students to apply technical knowledge and skills to develop working drawings and electronic simulations for architectural and related construction projects. Includes instruction in basic construction and structural design, architectural rendering, layout and designs, blueprint interpretation, building materials and basic structural wiring diagramming.

-or-

Option B

15.1300.30 Electronics Drafting: This course prepares students to apply technical knowledge and skills to develop working schematics and representations in support of electrical/electronic and computer engineers. Includes instruction in basic electronics, electrical systems and computer layouts, electronic circuitry and electrical systems specification interpretation.

-or-

Option D

15.1300.40 Mechanical Drafting: This course prepares students to apply technical knowledge and skills to develop working drawings and electronic simulations in support of mechanical and industrial engineers. Includes instruction in manufacturing materials and processes, mechanical drafting, basic metallurgy, geometric dimensioning and tolerance, blueprint reading and technical communications.

And program may elect to add:

15.1300.75 Drafting and Design Technologies - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience, that can be either paid or unpaid and does not necessarily require classroom instruction, that involves the application of previously developed Drafting and Design Technologies knowledge and skills.

-or-

15.1300.80 Drafting and Design Technology - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Drafting and Design Technology program.

Early Childhood Education

13.1210

The **Early Childhood Education** program is designed to prepare students for employment in early childhood settings. The program includes instruction in child growth and development, child health, nutrition, safety, planning and supervision of developmentally appropriate play and learning activities. Child guidance, family relationships, parenting and applicable legal and administrative requirements are addressed, as well. Preparation for the development and management of effective early childhood programs and facilities is included. In addition to technical skills, students completing this program will also develop advanced critical thinking, applied academic, career development, life and employability skills, business, economic and leadership skills required for entry into Early Childhood Education occupations. The program utilizes a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience and the Career and Technical Student Organization, FCCLA.

The following describes the recommended sequence of courses organized on the basis of industry-recognized skills necessary for initial employment or continued related education. All the state-designated Early Childhood Education standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

13.1210.10 Fundamentals of Early Childhood Education: This course prepares occupational students to understand the physical, mental, emotional and social growth and development of children. It is recommended that a portion of class time be spent observing young children.

-and-

13.1210.20 Early Childhood Education Applications: This course prepares students for occupations in early childhood education in both the public and private sector. At least 50% of students time should be spent working with children below grade three. High school students may receive certifications such as the Child Development Association (CDA) upon completion of the program.

And program may elect to add:

13.1210.75 Early Childhood Education - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can be either paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Early Childhood Education knowledge and skills.

-or-

13.1210.80 Early Childhood Education - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards for the Early Childhood Education program.

Education Professions

13.1200

The **Education Professions** program is designed to prepare students for employment or postsecondary opportunities in the education field. The program provides instruction in education career choices, education structure and systems, theory, pedagogy, developmental stages, learning styles and methodology. The program also provides interactive experiences with students at different age levels, in a variety of content areas in educational environments. Education Professions is designed to articulate with the Introduction to Education courses at the community college and para-professional preparation programs. In addition to technical skills, students completing this program will develop advanced critical thinking skills, enhanced academic skills, develop civic responsibility, understand education as a consumer, and develop employability and leadership skills. The program utilizes a delivery system made up of four integral parts: formal/technical instruction, experiential/service learning, supervised work-based learning and the student organization, FEA.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation State-designated Education Professions standards are addressed in this instructional program.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

13.1200.10 Education Professions Fundamentals: This course provides students with instruction in education career choices, education structure and systems, legal and ethical responsibility of educators. It provides instruction in developmental stages of children, education theory, pedagogy and methodology. It is recommended that observation and interactive field experience be a significant part of this course.

-and-

13.1200.20 Education Professions Applications: This course prepares students to work in an educational environment. The course should expound on learning styles, interactions with students, use of equipment and resources, methodology in both preparation and presentation in the classroom as a workplace.

And program may elect to add:

13.1200.75 Education Professions - Internship: This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience that can be either paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Education Professions knowledge and skills.

-or-

13.1200.80 Education Professions - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based learning and supervised work-based learning experiences directly related to the standards for the Education Professions program.

Electrical and Power Transmission Technologies**46.0300**

The **Electrical and Power Transmission Technologies** a program that generally prepares individuals to apply technical knowledge and skills to install indoor and outdoor residential, commercial, and industrial electrical systems and associated power transmission lines. Includes instruction in electricity, safety procedures, wiring, insulation and grounding, schematic blueprint interpretation, equipment operation and maintenance, and applicable codes and standards is designed to prepare students for careers in the Construction Industries. The occupational standards for both options are aligned with the National Center for Construction Education and Research (NCCER) standards. Construction Technologies I include units of instruction in electrical, masonry, concrete finishing and plumbing. Construction Technologies II includes units of instruction in floor systems, wall and ceiling framing, roof framing, site layout, exterior finish and roofing applications. The program is comprised of a core curriculum and two options: Option A (Residential Electrician) and Option B (Industrial Electrician). The following describes the recommended courses developed from industry-validated skills necessary for initial employment or continued related education.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

46.0300.10 Fundamentals of Electrical and Power Transmission Technologies: This course includes units of instruction in career planning, oral and written communications, understanding financial operations, teamwork, human relations, basic safety, construction math, hand tools, power tools, reading blueprints, basic rigging and exploring careers in construction.

-and-

At least one option must be included as part of the instructional sequence for this program:

Option A

46.0300.20 Residential Electrician: This course prepares the individual to apply and demonstrate advanced technical knowledge and skills to install, operate, maintain and repair electrical apparatus and systems such as residential electric power wiring; AC and DC motors, controls and electrical distribution panels. Includes instruction in principles of electronics and electrical systems, wiring, power transmission, safety, job estimation, electrical testing and inspection and applicable codes and standards.

-or-

Option B

46.0300.30 Industrial Electrician: This course prepares the individual to apply and demonstrate advanced technical knowledge and skills. This lab based course will provide the students an opportunity to participate in maintaining and repairing local, long distance and rural electric power cables and communication lines, erect and construct pole and tower lines; install underground lines and cables, which will include installation and repair, fibre-optic technology, trenching, mobile equipment and crane operation, high voltage installations, maintenance and inspection, safety, remote communications, and applicable codes and standards. The planning, design and completion of project based activities. This course prepares students for advanced technical knowledge and skills using a variety of techniques and equipment.

And program may elect to add:

46.0300.75 Electrical and Power Transmission Technology - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Electrical and Power Transmission Technology knowledge and skills.

-or-

46.0300.80 Electrical and Power Transmission Technology - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences, directly related to the standards identified for the Electrical and Power Transmission Technology program.

Electrical Systems Installation and Maintenance Technologies

47.0100

The **Electrical Systems Installation and Maintenance Technologies** program is designed to prepare students to apply technical knowledge and skills to assemble, install, operate, maintain and repair one and two way communications equipment and systems, including television cable systems and mobile or stationary communication devices. An integrated approach of teaching and learning is provided as students enhance their technical knowledge and skills that are associated with functions within Electrical Systems Installation and Maintenance Technologies occupations. In addition to the occupation related skills, students completing this program will develop advanced critical thinking, applied academics, interpersonal relations, life management, business, economic and leadership skills required for the 21st century workplace. The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience and the Career and Technical Student Organization, SkillsUSA.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Electrical Systems Installation and Maintenance Technologies standards are addressed in this instructional sequence.

- 47.0100.10 Electrical Systems Installation and Maintenance Technologies Fundamentals:** This course will introduce the basic components and principles involved in the assembly operation, maintenance, repair and installation of communications equipment and systems.
- and-**
- 47.0100.20 Electrical Systems Installation and Maintenance Technologies I:** This course offers the students the basics in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity and electronics as they relate to the repair and installation of communications systems.
- and-**
- 47.0100.25 Electrical Systems Installation and Maintenance Technologies II:** This course offers the students advanced knowledge skill and instruction in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity and electronics as they relate to the repair and

installation of communications systems.

And program may elect to add:

47.0100.75 Electrical Systems Installation and Maintenance Technologies - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can be either paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Electrical Systems Installation and Maintenance Technologies knowledge and skills.

-or-

47.0100.80 Installation and Maintenance Technologies - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Electrical Systems Installation and Maintenance Technologies program.

Electronic Technologies

15.0300

The **Electronic Technologies** program is designed to prepare students to apply basic engineering principles and technical skills in support of electrical, electronics and communication engineers. Includes instruction in electrical circuitry, prototype development and testing, systems analysis and testing, systems maintenance, instrument calibration and report preparation, in addition to technical skills, students completing this program will also develop advanced critical thinking, applied academic, career development, life management, business, economic and leadership skills required for Electronic Technology occupations.

The following describes the recommended courses developed from industry-validated skills necessary for initial employment or continued related education.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

15.0300.10 Electronic Technology Core Curriculum: Students will learn basic safety principles and practices used in electronic manufacturing industries and/or repairing electronic equipment. Students will learn how to use basic hand tools, test equipment and troubleshooting techniques. Other units of instruction include basic math through trigonometry, reading and interpreting schematic diagrams and technical drawings, soldering/desoldering techniques and other basic assembly skills.

-and-

15.0300.20 Electricity Principles and Applications: This course includes units of instruction in basic concepts, electrical quantities and units, basic circuits, laws and measurements, circuit components, multiple-load circuits, complex-circuit analysis, magnetism, alternating current and voltage, power in AC circuits, capacitance, inductance, transformers, RCL circuits, electric motors, and test equipment.

-and-

15.0300.25 Electronic Principles and Applications: This course includes units of instruction in semiconductors, diodes, power supplies, transistors, small-signal amplifiers, large-signal amplifiers, operational amplifiers, oscillators, communications theory, integrated circuits, silicon-controlled rectifiers, regulated power supplies and digital signal processing.

And program may elect to add:

15.0300.75 Electronic Technologies - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Electronic Technology knowledge and skills.

-or-

15.0300.80 Electronic Technologies - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Electronic Technology program.

Engineering Sciences

15.0000

The **Engineering Sciences** program is be designed to: prepare students to apply basic engineering principles and new product development applications for commercial and industrial products. Students will be prepared in the following instructional areas: Fundamental principles included in problem Solving techniques, creativity with product design, principles of processing, energy sources, available materials, environmental issues, industrial demands, and costs.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

15.0000.10 Fundamentals of Engineering Sciences:

This course will take students with a background of algebra and teach the basic knowledge of Engineering principles and systems of the engineering process, system analysis and control. Core concepts and understandings will be explored through the use of the tools used to create processes as they relate to the development of a system. Students will learn to research, experiment, plan, to organize, and manage such systems through problem-solving, creating efficient engineering processes used in science and industry. Additional units include career planning, communication skills, team work, work-based learning experiences, safety and business planning.

-and-

15.0000.11 Algebra II or above Math Course (course may be taken simultaneously with 15.0000.20)

-and-

15.0000.20 Applications of Problem Solving in Engineering Sciences: This course provides an opportunity for students with a physics background to apply fundamentals in the world of new technologies emerging from engineering research such as nanotechnology, chemical, environmental or mechanical engineering. This includes the use of hand machine tools, computer aided tools

and measurement systems from the oscilloscope to the nano-meter for nano-manufacturing. Students will learn how to link theory to hands-on real-world applications. This class is modeled to the University criterion covering engineering theory through a hands-on approach. Additional units are provided for further integration of general engineering principles in the manufacturing of a product.

-and-

15.0000.30 Advanced Engineering Sciences prepares students to use their critical thinking skills and to apply formulations from pre-calculus to basic innovative engineering job functions: research, design development, testing and analysis when preparing product processes to the manufacturing or aerospace engineering. Students will apply concepts of math and science, and problem solving skills to the different systems using input, process, output and feedback. Students will further demonstrate the fundamentals of engineering and mechanics using scientific principles from materials to to construct a project with consideration to environmental factors; economics and safety which impacts these processes on natural resources and society.

And program may elect to add:

15.0000.75 Engineering Sciences - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Engineering Sciences knowledge and skills.

-or-

15.0000.80 Engineering Sciences - Cooperative Education: This course utilizes cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Engineering Sciences program.

Financial Services

52.0800

The **Financial Services** instructional program prepares students to provide a wide variety of customer services and technical support in investments and securities, financial planning, credit management, insurance, real estate and banking and other financial related areas. Development of leadership skills is integral to the students' success in the program. The Career and Technical Student Organizations, FBLA or DECA students who complete this program will be prepared to participate in teams to solve problems and think critically about managing their personal finances and those of a business organization. In addition, students will possess the academic and foundation occupational skills and knowledge needed to pursue specialized postsecondary studies in finance. Instruction is designed and planned utilizing the state standards for the program. The program is designed and delivered as a coherent sequence of courses utilizing technical instruction, experiential learning, and supervised work-based experience.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All Career Preparation state-designated Financial Services standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

52.0800.10 Introduction to Business and Financial Services: Students enrolled in this course will receive instruction in a variety of customer services provided by banks, insurance agencies, investment brokers, credit unions and related enterprises. General knowledge of budgeting and credit management are outcomes of this course. A computer with business applications software is used by students to perform business and finance related tasks.

-and-

52.0800.20 Basic Financial Services: Students enrolled in this course will receive instruction in principles of economics and accounting, financial instruments, economic and monetary systems. A computer with business applications software is used by students to perform basic financial management tasks.

And program may elect to add:

52.0800.75 Financial Services - Internship: This course provides students an opportunity to apply previously developed financial services knowledge and skills while participating in a structured work experience. Students may be paid or unpaid for their work experience.

-or-

52.0800.80 Financial Services - Cooperative Education: This course is designed to provide students with both school-based and work-based learning. Training plans and training agreements are based on previously developed financial services knowledge and skills. Students generally work a minimum of 15 hours a week.

Fire Service
43.0200

The **Fire Service** program prepares students to perform technical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of Fire Science services. An integrated approach to teaching and learning is provided as students develop interpersonal relations, career development skills and technical knowledge, and skills associated with careers in this field. Students completing this program will be prepared to participate in teams, solve problems, think critically and implement effective solutions. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience and leadership and personal development through the Career and Technical Student Organization, SkillsUSA

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All of the Career Preparation state-designated Fire Service standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

43.0200.10 Fundamentals of Fire Service: This course introduces students to careers in Fire Science and prepares students to apply academic, employability and technical knowledge and skills related to common industry standards and practices of Fire Science.

-and-

43.0200.20 Fire Service - Advanced Applications: This course prepares students to apply advanced academic and technical knowledge and skills in a variety of settings within Fire Science.

And program may elect to add:

43.0200.75 Fire Service - Internship: This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience within the specific option they have studied. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.

-or-

43.0200.80 Fire Service - Cooperative Education: This course utilizes cooperative education methodology to combine school-based and supervised work-based learning identified for students within the specific option they have studied.

Graphic Communications

10.0300

The **Graphic Communications** program is designed to prepare students for employment/postsecondary education related to the fields of Graphic Arts, Graphic Design, or Photo-Imaging. An integrated approach of teaching and learning is provided as students enhance their technical knowledge and skills that are associated with functions within Graphic Communications occupations. In addition to the occupation related skills, students completing this program will develop advanced critical thinking, applied academics, interpersonal relations, life management, business, economic, and leadership skills required for the 21st century workplace. The Graphic Communications program consists of a core curriculum and three areas of specialization for a student to choose from: Option A) Graphic Arts, Option B) Graphic Design, or Option C) Photo-Imaging. The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience, and the Career and Technical Student Organization, SkillsUSA.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Graphic Communications standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

10.0300.10 Fundamentals of Graphic Communications: This course includes units of instruction in all aspects of the industry, career development, applied math, safety, legal issues, customer service, basic computer and design skills, color management and preparing a portfolio for Graphic Communications occupations.

-and-

The following course can be added, if necessary, to the Coherent Sequence of Instruction.

10.0300.12 Graphic Communication Fundamentals II: This course is a continuation of Graphic Communications Fundamentals if necessary. Instruction will include all aspects of the industry, career development, applied math, safety, legal issues, customer service, basic computer and design skills, color management and preparing a portfolio for Graphic Communications occupations.

-and-

Two of the following Career Preparation courses (.20 and .25 or .30 and .35 or .40 and .45) will be included as part of the instructional sequence for this program:

Option A

10.0300.20 Graphic Arts I: This course prepares the individual to apply basic artistic and computer techniques to the interpretation of technical and commercial concepts of press operations. Includes instruction in computer assisted art and design, printmaking, color theory, plate making, image assembly, press operations and print finishing/distribution.

-and-

10.0300.25 Graphic Arts II: This course prepares the individual to apply advanced technical knowledge and skills to the layout, design, and typographic arrangements of printed and electronic media. Includes theory and hands-on instruction in offset and digital printing equipment and operations, lithography, screen-printing, digital imaging, print preparation, desktop publishing, and will provide a distinct understanding of the printing industry and its business operations.

-or-

Option B

10.0300.30 Graphic Design I: This course includes units of instruction in applied visual arts that prepares the individual to use basic artistic techniques to communicate effectively ideas and information to business and customer audiences via illustrations and other forms of digital or printed media. Students will continue the development of the electronic and traditional portfolio.

-and-

10.0300.35 Graphic Design II: This course prepares the individual to apply advance knowledge and skills to prepare customer documents. The course includes units of instruction in concept and layout, paste-up techniques such as drawing, cartooning, and computer graphics. Students will complete the electronic and traditional portfolio.

-or-

Option C

10.0300.40 Photo Imaging I: This course includes units of instruction in applied visual arts that prepares the individual to use basic artistic techniques to communicate effectively ideas and information to business and customer audiences through the recording of events and people, via digital photography.

-and-

10.0300.45 Photo Imaging II: This course prepares the individual to apply advanced knowledge and skills to produce quality photographs through the use of digital photography. The course includes units of instruction in specialized camera and equipment operation and maintenance, applications to commercial and industrial needs and photography business operations.

And program may elect to add:

10.0300.75 Graphic Communications - Internship: this course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can be either paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Graphic Communications knowledge and skills.

-or-

10.0300.80 Graphic Communications - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Graphic Communications program.

Heating, Ventilation and Air Conditioning Maintenance

47.0200

The **Heating, Ventilation and Air Conditioning Maintenance** program prepares students to apply technical knowledge and skills to repair, install, service and maintain the operating conditions of heating and air conditioning systems. Includes instruction in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity and electronics as they relate to the repair of heating and air conditioning systems.

The following describes the recommended courses developed from industry-validated skills necessary for initial employment or continued related education.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

47.0200.10 Heating, Ventilation and Air Conditioning Maintenance I: This course will prepare students to use a wide variety of tools and equipment and maintain a safe work environment. The student will develop an understanding of construction math, financial operations, reading blueprints, basic rigging and basic layout techniques. The student will develop skills in oral and written communication as they relate to the industry. This course is designed to help students develop an enhanced understanding of teamwork, employability skills and career opportunities in the field.

-and-

47.0200.20 Heating, Ventilation and Air Conditioning Maintenance II: Heating, Ventilation and Air Conditioning II: This course prepares the individual to apply and demonstrate advanced technical knowledge and skills in the industry. This lab based course will provide the students an opportunity to participate in the planning, design and completion of project based activities.

And program may elect to add:

47.0200.75 Heating, Ventilation and Air Conditioning - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Heating, Ventilation and Air Conditioning knowledge and skills.

-or-

47.0200.80 Heating, Ventilation and Air Conditioning Maintenance - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences, directly related to the standards identified for the Heating/Air Conditioning Maintenance program.

Heavy Equipment Operations

49.0200

The **Heavy Equipment Operations** program prepares students to apply technical knowledge and skills to operate and maintain a variety of heavy equipment such as a crawler tractor, motor graders and scrapers, shovels, rigging devices, hoists, and jacks. Includes instruction in digging, ditching, sloping, stripping, grading and backfilling, clearing and excavating.

The following describes the recommended courses developed from industry-validated skills necessary for initial employment or continued related education.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

49.0200.10 Heavy Equipment Operations I: Course description is under development.

-and-

49.0200.20 Heavy Equipment Operations II: Course description is under development.

And program may elect to add:

49.0200.75 Heavy Equipment Operations - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Heavy Equipment Operations knowledge and skills.

-or-

49.0200.80 Heavy Equipment Operations - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences, directly related to the standards identified for the Heavy Equipment Operations program.

Heavy / Industrial Equipment Maintenance Technologies

47.0300

The **Heavy/Industrial Equipment Maintenance Technologies** program description and certification requirements are under development.

Questions: Jan Brite
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RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 47.0300.10 Heavy/Industrial Equipment Maintenance Tech Core Curriculum:** This course is under development.
-and-
- 47.0300.20 Heavy/Industrial Equipment Maintenance Tech I:** This course is under development.
-and-
- 47.0300.25 Heavy/Industrial Equipment Maintenance Tech II:** This course is under development.
And program may elect to add:
- 47.0300.75 Heavy/Industrial Equipment Maintenance Tech - Internship:** This course is under development.
-or-
- 47.0300.80 Heavy/Industrial Equipment Maintenance Tech - Cooperative Education:** This course is under development.

Hospitality Management
52.0900

The **Hospitality Management** program is designed to prepare students for employment in positions that provide customer-focused services in such facilities as hotels, resorts, convention centers, National parks, RV parks, travel agencies and cruise lines. A student completing this program will possess the knowledge and skills associated with reservations and front desk operations, meeting and banquet room support services, food and beverage support services, housekeeping, laundry operations, supervisory functions, and environmental functions. In addition to these skills, students will possess advanced employability skills including critical and conceptual thinking, communications, applied academics, life and employability skills, and technology. This program utilizes a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience, and the Career and Technical Student Organization, FCCLA and DECA.

The following describes a recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the state-designated Hospitality Management standards are addressed in this instructional sequence.

- 52.0900.10 Fundamentals of Hospitality Management:** This course prepares students for occupations in a variety of hospitality services and facilities including: hotels, resorts, convention centers, National parks, RV parks, travel agencies and cruise lines.
-and-
- 52.0900.20 Hospitality Management Applications:** The outcomes of this course are integrated into learning projects and simulations to demonstrate the full range of Hospitality Management standards. Work-based learning activities such as internships, school-based enterprises, or job shadowing are considered a component of Hospitality Management application activities.
And program may elect to add:

52.0900.75 Hospitality Management - Internship: This course provides students an opportunity to apply previously developed knowledge and skills into a structured work experience. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders who have completed at least one Carnegie unit of study in the Hospitality Management program.

-or-

52.0900.80 Hospitality Management - Cooperative Education: This course utilizes a cooperative education methodology by providing supervised work-based learning experiences directly related to the standards identified for the Hospitality Management program.

Information Technologies

15.1200

The **Information Technologies** program is designed to prepare students for employment/postsecondary education related to the design, development, installation, implementation, use and management of computers and networks. An integrated approach of teaching and learning is provided to enhance the technical knowledge and skills associated with functions within IT occupations. In addition to the occupation related skills, students completing this program will develop advanced critical thinking, applied academics, interpersonal relations, life management, business, economic, and leadership skills required for the 21st century workplace. The Information Technology program consists of a core curriculum and four areas of specialization for a student to choose from: Option A) Computer Maintenance, Option B) Network Technology, Option C) Software Development, or Option D) Web Page Development. The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience, and the Career and Technical Student Organization, SkillsUSA or FBLA.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

15.1200.10 Information Technologies Fundamentals: This course introduces principles of computers with an emphasis on basic concepts of computer maintenance, network technology, software development and web page development. While also providing an understanding of the IT industry, computer mathematics and the evolution of the computer.

-and-

One of the four Career Preparation options (.20 or .30 or .40 or .50) will be included as part of the instructional sequence for this program:

Option A

15.1200.20 Computer Maintenance: This option prepares students to apply technical knowledge and skill in PC hardware and software systems with an emphasis on PC repair and maintenance. This option will offer skills necessary to competently perform in the industrial environment, as well as pass the necessary exams to obtain certification.

-or-

Option B

15.1200.30 Network Technologies: This option prepares students to apply technical knowledge and skills to install, configure and troubleshoot basic networking hardware, protocols, and services. This option will offer the skills necessary to competently perform in the industrial environment, as well as pass the necessary exams to obtain certification.

-or-

Option C

15.1200.40 Software Development: This option prepares students to apply software theory and programming methods to the solution of business data problems. This option will offer the skills necessary to competently perform in the industrial environment, as well as pass the necessary exams to obtain certification.

-or-

Option D

15.1200.50 Web Page Development: This option prepares students to become familiar with the foundational and basic skills of Internet Technologies, writing code manually, using graphical user interface authoring tools and learning basic infrastructure networking. This option will offer the skills necessary to competently perform in the industrial environment, as well as pass the necessary exams to obtain certification.

And program may elect to add:

15.1200.75 Information Technologies - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can be either paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Information Technologies knowledge and skills.

-or-

15.1200.80 Information Technology - Cooperative Education: This course utilizes cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Information Technology program.

Law, Public Safety and Security

43.0100

The **Law, Public Safety and Security** instructional program prepares students to perform technical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of Law, Public Safety and Security services. An integrated approach to teaching and learning is provided as students develop interpersonal relations, career development skills and technical knowledge and skills associated with careers in this growing field. Students completing this program will be prepared to participate in teams, solve problems, think critically, and implement effective solutions. The program is designed and delivered as a coherent sequence of experiences using technical instruction, experiential learning, supervised occupational experience, and leadership and personal development through the Career and Technical Student Organization, SkillsUSA.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All Career

Preparation state-designated Law, Public Safety and Security standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 43.0100.10 Fundamentals of Law, Public Safety and Security:** This course introduces students to careers in Law, Public Safety and Security and prepares students to apply academic and technical knowledge and skills related to common industry standards and practices.
- and-**
- 43.0100.20 Law, Public Safety and Security - Advanced Applications:** This course prepares students to apply advanced academic and technical knowledge and skills to a variety of settings within Law, Public Safety and Security.
- And program may elect to add:**
- 43.0100.75 Law, Pubic Safety & Security - Internship:** This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience within the specific program they have studied. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.
- or-**
- 43.0100.80 Law, Public Safety & Security - Cooperative Education:** This course utilizes cooperative education methodology to combine school-based and supervised work-based learning identified for students within the specific program of studies.

Marketing, Management, and Entrepreneurship
52.1800

The **Marketing, Management and Entrepreneurship** program is designed to prepare students for employment in various sales, customer service, first-line supervisory positions, web page design, e-retailing, sports marketing, hospitality and tourism, small business ownership, advertising/promotion and/or postsecondary education related to the fields of Professional Sales and Marketing, E-Commerce Marketing, Entertainment Marketing, Entrepreneurship and Advertising. An integrated approach of teaching and learning is provided as students enhance their technical knowledge and skills that are associated with functions within Marketing, Management and Entrepreneurship occupations. In addition to the occupation related skills, students completing this program will also develop advanced critical thinking, applied academic, interpersonal relations, life management, business, economic, and leadership skills required for the 21st century workplace. The Marketing, Management and Entrepreneurship program consists of a core curriculum and five areas of specialization for a student to choose from: Option A) Professional Sales and Marketing, Option B) E-Commerce Marketing, Option C) Entertainment Marketing, Option D) Entrepreneurship, or Option E) Advertising. The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experiences, and the Career and Technical Student Organization, DECA.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Marketing, Management and Entrepreneurship standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

52.1800.10 Marketing, Management and Entrepreneurship Fundamentals: This course is designed to introduce the students to basic marketing concepts and principles as they relate to Professional Sales and Marketing, E-Commerce, Entertainment Marketing, Entrepreneurship and Advertising.

-and-

One of the five Career Preparation options (.20, .30, .40, 50 or .60) will be included as part of the instructional sequence for this program:

Option A

52.1800.20 Professional Sales and Marketing: This course prepares students to perform marketing functions and tasks as they relate to selling and retailing. (This code is appropriate for courses utilizing a marketing lab/student-operated store.)

-or-

Option B

52.1800.30 Advertising and Public Relations: This course prepares students to create and market communication strategies utilizing multiple media mediums. Includes instruction in the elements of advertising, design and graphics as well as copyright to effectively plan, integrate and implement successful advertising campaigns.

-or-

Option C

52.1800.40 Entertainment Marketing: This course prepares students to perform marketing and management functions and tasks that can be applied to amateur or professional sports or sporting events and entertainment or entertainment services. It also prepares students to perform marketing and management functions and tasks that can be applied to attracting and serving the traveling public, and other services incidental to the travel and tourism industry.

-or-

52.1800.50 Entrepreneurship: This course prepares students for small business ownership through the development of a business plan, marketing strategies and a financial plan while also gaining an understanding of HR and Management functions within a small business.

And program may elect to add:

52.1800.75 Marketing, Management and Entrepreneurship - Internship: This course provides MME students an opportunity to engage in learning through participation in a structured work experience that can be either paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed MME knowledge and skills. However, the Internship does require applications directly related to the Technical Standards of the Marketing, Management and Entrepreneurship program.

-or-

52.1800.80 Marketing, Management and Entrepreneurship - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Marketing, Management, and Entrepreneurship program.

Mental and Social Health Services

51.1500

The **Mental and Social Health Services** program prepares students to participate in teams, solve problems, think critically and implement effective solutions. The program will be designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised clinical experience, leadership and personal development through the Career and Technical Student Organization, HOSA.

This program will be designed to prepare high school students with the foundations in knowledge and technical skills needed to help prepare them to continue their education by successfully completing an appropriate postsecondary program. Affiliations with local community college programs can provide high school students with dual or concurrent credit that can be applied toward their postsecondary certificate or degree.

The following describes the recommended sequence of courses yet to be developed that will help prepare students to complete successfully a postsecondary program in mental and social health services.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

51.1500.10 Fundamentals of Mental and Social Health Services: This course, when developed, will help prepare students to continue their education toward becoming Mental and Social Health Services personnel by completing an appropriate postsecondary program.

-and-

51.1500.20 Mental and Social Health Services - Advanced Applications: This course, when developed, will help prepare students to continue their education toward becoming Mental and Social Health Services personnel by completing an appropriate postsecondary program.

And program may elect to add:

51.1500.75 Mental and Social Health Services - Internship: This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience within the specific program they have studied. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.

-or-

51.1500.80 Mental and Social Health Services - Cooperative Education: This course utilizes cooperative education methodology to combine school-based and supervised work-based learning identified for students within the specific program they have studied.

Multimedia Technologies

10.0200

The **Multimedia Technologies** program is designed to prepare students to apply technical knowledge and skill in the:

- Writing, directing, production and performance of broadcast journalism for television.
- Communication of dramatic information, ideas, moods and feelings through the making, producing and editing of films and video.
- Production of sound recording as finished products or as components of film/video, broadcast, live or mixed media productions.

As well as prepare students for employment in various positions within the Radio, TV, and Film industries such as Animator, Assignment Editor, Assistant Editor, Audio Technician, Camera operator, Camera Assistant, Composer, Digital Production Manager, DJ, FCP Editor, Field Mixer/Audio Engineer, Field Producer, Grip, Gaffer, HD Camera Operator, News Director, News Producer, News Reporter, Production Assistant, Production Coordinator, Prop Master, Scriptwriter, Soundmixer, Special Effects/Make-up Artist, Storyboard Artist, Videographer, Writer and/or postsecondary education related to the fields of Electronic Journalism, Interactive Digital Media and Radio/Audio Technologies.

An integrated approach of teaching and learning is provided as students enhance their technical knowledge and skills that are associated with functions within Audio/Visual Technologies occupations. In addition to the occupation related skills, students completing this program will develop advanced critical thinking, applied academics, interpersonal relations, life management, business, economic and leadership skills required for the 21st century workplace.

The Audio/Visual Technologies program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience and the Career and Technical Student Organization, SkillsUSA.

Career Preparation: The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Multimedia Technologies standards are addressed in this instructional sequence.

- 10.02
00.10** **Fundamentals of Multimedia Technologies:** This course prepares the students to apply technical knowledge and skills in the production of Multimedia Technologies programs and related operations. Included in the core curriculum is basic instruction in sound, lighting and camera operation/maintenance, power feed control, studio operations, production preparation, sound/video editing, broadcast engineering, related computer applications, and specialized applications such as news, entertainment, live talk, sports, commercials, PSA's, documentaries and short films/animations.
- and-**
- 10.02** **Applications of Multimedia Technologies:** This course offers the

- 00.20** students advanced skill and knowledge to write broadcast media, produce, direct and perform a television broadcast while also giving students the ability to edit digital images and video, develop and manage interactive digital media.
And program may elect to add:
- 10.02** **Multimedia Technologies - Internship:** This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can be either paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Multimedia Technologies knowledge and skills.
- 00.75**
- or-**
- 10.02** **Multimedia Technologies - Cooperative Education:** This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Audio/Visual Technologies program.
- 00.80**

Nursing Services
51.3900

The **Nursing Services** instructional program prepares students to perform technical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of nursing assisting services. The Arizona State Board of Nursing must approve Certified Nursing Assistant programs. An integrated approach to teaching and learning is provided as students develop interpersonal relations, career development skills and technical knowledge and skills associated with nursing assisting and the pathway into other careers in nursing. Students completing this program will have the opportunity to take the Arizona examination to become a Certified Nursing Assistant (I), and be prepared to participate in teams, solve problems, think critically and implement effective solutions. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, supervised occupational experience and leadership and personal development through the Career and Technical Student Organization. HOSA will be available as the Career and Technical Student Organization serving Health Careers Education.

The following describes the recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education. All the Career Preparation state-designated Nursing Services standards are addressed in this instructional sequence.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 51.3900.10** **Fundamentals of Nursing Services:** This course prepares students to apply academic, employability and technical knowledge and skills related to common industry standards and practices of nursing assisting within the nursing profession.
- and-**

- 51.3900.20 Nursing Services - Advanced Applications:** This course prepares students to apply advanced academic and technical knowledge and skills related to nursing assisting in a variety of settings within the nursing profession.
And program may elect to add:
- 51.3900.75 Nursing Services - Internship:** This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience within the specific program they have studied. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.
-or-
- 51.3900.80 Nursing Services - Cooperative Education:** This course utilizes cooperative education methodology to combine school-based and supervised work-based learning identified for students within the specific program of studies.

Performing Arts and Entertainment Industry
50.0500

The **Performing Arts and Entertainment Industry** instructional program prepares students to participate in the technical and management areas of the performing arts and entertainment industry. In addition, students will possess the foundation skills needed for postsecondary studies in technical theatre or arts management. An integrated approach to teaching and learning is recommended as students develop interpersonal relations, career development skills and technical knowledge and skills associated with the performing arts and entertainment industry.

Leadership skills are developed through the state recognized Career and Technical Student Organizations, Skills USA. Performing Arts and Entertainment Industry students are also encouraged to be active members of the Arizona State Thespians.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

Option A

- 50.0500.20 Fundamentals of Performing Arts and Entertainment Industry - Technical Theatre:** This course prepares students to apply knowledge and skills to artistic, technical, and dramatic principles to communicate through theatrical methods. This program includes instruction in set design, lighting design, sound design and audio engineering, make-up design, scene painting, property management, production management, video design, costume design, technical direction and production, and digital applications.

A recommended pre-requisite of a fine arts class in theatre, music or dance is not funded through CTE.

-and-

- 50.0500.25 Performing Arts and Entertainment Industry - Technical Theatre I:** Prepares individuals to manage the planning, design, preparation, and application of theatrical production as described above.
And program may elect to add:

50.0500.26 Performing Arts and Entertainment Industry -Technical Theatre II: This third optional course continues the work of Technical Theatre I, with students managing the planning, design, preparation and application of theatrical production as described above.

-or-

Option B

50.0500.30 Performing Arts and Entertainment Industry - Fundamentals: Arts Management: This course prepares students to apply knowledge and skills from the world of business to the management of non-profit performing arts and for-profit entertainment companies. This program includes instruction in financial management practices for performing arts businesses, legal and ethical behaviors in the entertainment industry, safety rules and procedures, marketing, administrative management and leadership, human resource management, information systems and technology, fundraising and development, and operations (front and back of house) management.

Recommended Pre-Requisite: a fine arts class in theatre, music or dance or a business fundamentals course.

-and-

50.0500.35 Performing Arts and Entertainment Industry - Arts Management I: Prepares individuals to manage the planning, preparation, and application of arts management practices to performing arts and entertainment businesses as described above.

-or-

50.0500.36 Performing Arts and Entertainment Industry - Arts Management II: This third optional course continues the work of Arts Management I, with students managing the planning, preparation, and application of arts management practices to performing arts and entertainment businesses as described above.

And program may elect to add:

50.0500.75 Performing Arts and Entertainment Industry - Internship: This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience that can be either paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Performing Arts and Entertainment Industry knowledge and skills.

-or-

50.0500.80 Performing Arts and Entertainment Industry - Cooperative Education: This course utilizes a cooperative education methodology to combine school-based learning and supervised work-based learning experiences directly related to the standards for the Performing Arts and Entertainment Industry program.

Precision Manufacturing

48.0500

The **Precision Manufacturing** program is designed to introduce students to basic precision manufacturing principals and technical skills. Students will be prepared in the following instructional areas: manufacturing systems, production planning and quality control, documentation, technical problem-solving, management information systems, predictive/preventive maintenance and automated manufacturing. Students will have the opportunity to earn an industry recognized NIMS level 1 certification. The program is

comprised of one core course and three options: Option A (Automation/Robotics); Option B (Computer Controlled Fabrication). The program uses a delivery system made up of four integral parts: formal/technical instruction, experiential learning, supervised occupational experience, and the Career and Technical Student Organization, SkillsUSA.

48.0500.10 Fundamentals of Precision Manufacturing: This course includes units of instruction in computer control and power systems used in manufacturing. Units also include set up and change-over techniques, using industrial instruments and utilizing technical skills. Instruction also includes careers opportunities in manufacturing, communications skills, work-based learning experiences, teamwork, safety, creative thinking and problem solving.

-and-

48.0500.12 Applications of Precision Manufacturing: This course includes units of instruction in computer control and power systems used in manufacturing. Units also include set up and change-over techniques, using industrial instruments and utilizing technical skills. Instruction also includes careers opportunities in manufacturing, communications skills, work-based learning experiences, teamwork, safety, creative thinking and problem solving.

One of the following Career Preparation options will be included as part of the instructional sequence for this program:

Option A

48.0500.20 Automation/ Robotics: Students in this course will learn how automation reduces the need for human labor. Students will understand the math, science and technology of robots, their design, and application in industrial automation for manufacturing. Students will learn control systems, robotics and computer applications and how they are used to control machinery in industry. Students will gain a working knowledge of electronics, programming, mechanics and applicable software through technical skills in support of technicians and other personnel engaged with robotics.

-or-

Option B

48.0500.30 Precision Machining: in this course students develop a clear understanding of mechanical systems including engines, pumps, medical devices; as well as the need for highly accurate parts via modern CAD-CAM systems to produce 3-D developed components. Students will learn how tighter tolerances require ultrahigh precision machining to be competitive in the aerospace industry. Students will have the opportunity to earn an industry recognized certificate verifying the student's practice of machine geometry, motion control and machining strategy.

And program may elect to add:

48.0500.75 Precision Manufacturing - Internship: This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Precision Manufacturing knowledge and skills.

-or-

48.0500.80 Precision Manufacturing - Cooperative Education: This course utilizes cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Precision Manufacturing program.

Therapeutic Massage
51.3500

The **Therapeutic Massage** instructional program prepares students to perform technical and clinical services involved with planning, organizing, researching, directing and controlling functions and processes related to the provision of therapeutic massage. An integrated approach to teaching and learning is provided as students develop interpersonal relations, career development skills and technical knowledge and skills associated with careers in this growing field. Students completing this program will be prepared to participate in teams, solve problems, think critically, and implement effective solutions. The program is designed and delivered as a coherent sequence of experiences using technical instruction, experiential learning, supervised clinical experience, and leadership and personal development through the Career and Technical Student Organization, HOSA.

The following describes the recommended sequence of courses. All the Career Preparation standards for Therapeutic Massage are under development.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

51.3500.10 Fundamentals of Therapeutic Massage: This course prepares students to apply academic and technical knowledge and skill of the Therapeutic Masseuse in a clinical, medical or retail setting or to continue into postsecondary education.

-and-

51.3500.20 Therapeutic Massage - Advanced Applications: These courses prepare students to apply academic, technical knowledge and skills of the therapeutic masseuse in a clinical, medical or retail setting or to continue into postsecondary education.

And program may elect to add:

51.3500.75 Therapeutic Massage - Internship: This course provides students an opportunity to apply previously developed knowledge and skill into a structured work experience within the specific program of study they have completed. This work experience doesn't necessarily require classroom instruction, may be paid or unpaid, and is available for 12th graders.

-or-

51.3500.80 Therapeutic Massage - Cooperative Education: This course utilizes cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for students within the specific program they have studied.

Transportation Technologies

47.0600

The **Automotive Technologies** program is designed to prepare individuals for jobs as technicians in the automotive or avionics fields. The program is comprised of a core curriculum and four options: Option A (Automotive Technologies), Option B (Auto body/Collision Repair), Option C (Diesel Engine Repair), and Option D (Aircraft Mechanics). The occupational standards for both options A and B are aligned with National Automotive Technicians Education Foundation (NATEF) and Automotive Service Excellence (ASE) standards.

- Automotive Technologies includes units on repairing brake systems, repairing electrical/electronic systems, repairing steering and suspension systems, and engine performance diagnosis and repair.
- Auto Body/Collision Repair Technologies includes units on performing disassembly and assembly repairs, performing structural repairs, performing metal, plastic and fiberglass repairs, preparing and finishing surfaces, and using appropriate paint and refinishing techniques.
- Diesel Engine Repair Technologies includes units on repair, service, and maintenance of diesel engines in vehicles such as automobiles, buses, trucks and construction equipment; as well as stationary diesel engines in electrical generators and related equipment.

Aircraft Mechanics prepares students to apply technical knowledge and skills to repair, service, and maintain all types of aircraft power plants and related systems. Instruction includes engine inspection and maintenance, lubrication and cooling, electrical and ignition systems, carburetion, fuels and fuel systems.

The following describes the recommended courses developed from industry-validated skills necessary for initial employment or continued related education.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

47.0600.10 Automotive Technologies Core Curriculum: This program prepares the student to apply technical knowledge and skills in the safety, adjustment, maintenance, part replacement, and repair of tools, equipment and machines. The course includes developing career plans, preparing for employment, participating in work-based learning experiences, demonstrating oral and written communication skills, understanding financial operations of small businesses, identifying characteristics of successful leaders in the work place and participation in leadership development activities.

-and-

At least one option must be included as part of the instructional sequence for this program:

Option A

47.0600.20 Automotive Technologies I: This course prepares the individual to apply basic technical knowledge and skills in safety, adjustment, maintenance, and parts replacement to repair automobiles and light trucks. Students are introduced to: a) brake systems; b) electric/electronic systems; c) steering and suspension systems; and d) engine performance diagnosis and repair.

-and-

47.0600.25 Automotive Technologies II: This course prepares the individual to apply higher levels of technical knowledge and skills to maintain, diagnose and repair automobiles and light trucks. Students will gain in-depth knowledge needed to troubleshoot and identify malfunctioning components and sensors; and correct these problems in four areas: 1) brake systems; 2) electrical/electronic systems; 3) steering and suspension systems; and 4) engine performance analysis. Graduates should be able to pass the ASE tests for each of the four areas.

-or-

Option B

47.0600.30 Automotive Collision Repair I: This course prepares individuals to apply basic technical knowledge and skills in seven standards areas: 1) safety and maintenance; 2) damage analysis and preparing repair cost estimates; 3) disassemble and assemble parts, 4) non-structural repair; 5) metal, plastic and fiberglass repairs; 6) prepare and finish surfaces; and 7) paint and refinishing techniques.

-and-

47.0600.35 Automotive Collision Repair II: This course prepares the individual to apply higher levels of technical knowledge and skills to repair, reconstruct and finish automobile and light truck bodies, fenders and external features. Includes instruction in seven competency areas: 1) safety and maintenance; 2) damage analysis and damage reports; 3) disassemble and assemble parts; 4) non-structural repairs; 5) metal, plastic and fiberglass repairs; 6) prepare and finish surfaces; and 7) paint and refinishing techniques. Graduates will be prepared to pass the four specialized tests required for the Master Collision Repair and Refinish Certification.

-or-

Option C

47.0600.40 Diesel Engine Repair Technology I: This course prepares the individuals to apply technical knowledge and skills to repair service and maintain diesel engines and related equipment.

-and-

47.0600.45 Diesel Engine Repair Technology II: This course prepares the individual to apply higher levels of technical knowledge and skills to repair vehicles such as buses, trucks, ships, railroad locomotives construction equipment and related equipment

-or-

Option D

47.0600.50 Aircraft Mechanics I: This course provides beginning level knowledge and skills that have been identified as preparation for the FAA Airframe and Power Plant (A&P) certificate. Further education and training may be required to be able to master the knowledge and skills required for full A&P certification.

47.0600.55 Aircraft Mechanics II: This course provides an advancing level of knowledge and skills that have been identified as preparation for the FAA Airframe and Power Plant (A&P) Certificate. Further education and training may be required to be able to master the knowledge and skills required for full A&P certification.

-or-

Option E

- 47.0600.60 General Service Technician I:** This course prepares the individual to apply basic technical knowledge and skills in safety, adjustment, maintenance, and parts replacement to repair automobiles and light trucks. Students are introduced to: auto shop and personal safety, tools and equipment, basic vehicle service, engine repair, automatic transmission, and manual drive train and axles.
- and-**
- 47.0600.65 General Service Technician II:** This course prepares the individual to apply higher levels of technical knowledge and skills to maintain, diagnose and repair automobiles and light trucks. Students will gain in-depth knowledge needed to troubleshoot and identify malfunctioning components and sensors; and correct these problems in the areas of: suspension and steering, brakes, electrical/electronic systems, heating and air conditioning, and engine performance.
- And program may elect to add:**
- 47.0600.75 Transportation Technologies - Internship:** This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Transportation Technologies knowledge and skills.
- or-**
- 47.0600.80 Automotive Technologies - Cooperative Education:** This course utilizes cooperative education methodology to combine school-based and supervised work-based learning experiences related to the standards identified for the Automotive Technologies program.

Welding Technologies
48.0508

The **Welding Technologies** program is designed to prepare students for employment welding. The curriculum provides individuals with critical thinking, career development, life management, business, economic and leadership skills required for Welding Technologies occupations. Welding Technologies prepares individuals to apply technical knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

The following describes the recommended courses developed from industry-validated skills necessary for initial employment or continued related education.

RECOMMENDED PROGRAM SEQUENCE OF COURSES:

- 48.0500.10 Welding Technologies Core Curriculum:** Instruction includes career planning, preparing for employment, work-based learning, oral and written communication skills, understanding the role of small businesses and financial management, workplace leadership styles and leadership development. The program is designed and delivered as a coherent sequence of experiences using technical instruction, experiential learning, supervised occupational experience, leadership and personal development through the career and technical student organization.
- and-**
- 48.0500.20 Welding Technologies I:** Prepares individuals to apply basic technical knowledge and skills to join or cut metal surfaces. Includes instruction in blueprint reading, arc welding, brazing soldering, cutting, safety, and applicable codes and standards.
- and-**
- 48.0500.25 Welding Technologies II:** This course prepares individuals to apply advanced technical knowledge and skills using a variety of welding techniques and equipment. Instruction includes Welding and Cutting Theory, Inspection and Testing, Electrical Fundamentals, Drawing and Welding Symbols, Fabrication Principles and Practices and Safety.
- And program may elect to add:**
- 48.0500.75 Welding Technologies - Internship:** This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Welding Technologies knowledge and skills.
- or-**
- 48.0500.80 Welding Technologies - Cooperative Education:** This course utilizes a cooperative education methodology to combine school-based and supervised work-based learning experiences directly related to the standards identified for the Welding Technologies program.

2011-2012 Course Approval Form Joint Technical Education Districts

Name of Joint Technological District: _____

Contact Person: _____ Phone: _____ Email: _____

Program Name: _____ Program CIP: _____

For ADE Use Only

Course approval Check list

Approval Status

Action Needed

A= Approved, CA=Conditionally Approved, NA= Not Approved

Uses approved program standards:

__A __CA __NA

- *Approved ADE Career and Technical Education Program Standards
(Explanation of how the standards are enhanced and taught at a higher level than in a non-JTED comprehensive high school CTE program must be submitted to ADE)*
- *Postsecondary Standards leading to a degree or certification
(List of Standards must be submitted to ADE)*
- *Other Standards based on labor market needs (Determining labor market data and list of standards must be submitted to ADE)*

Uses industry-validated curriculum

__A __CA __NA

- Curriculum used to teach the standards in this program must be specified.
- Curriculum used to teach the standards exceeds the curriculum used in a non-JTED comprehensive high school CTE program must be evident

End of program assessment or certification available for students

 A CA NA

- End of Program Assessment must be specified
- Certification must be specified

Requires specialized equipment or instructional materials

 A CA NA

- Specialized equipment specified
- Specialized instructional materials specified

Has appropriately certified instructor for each course

 A CA NA

- Instructor holds valid State Board of Education Career and Technical Education certification
- Instructor holds valid Community College Career and Technical Education certification

- All courses listed on the application are approved
- All courses listed on the application are conditionally approved
- Courses listed below are not approved

Course

Rationale for Unapproved Courses

Signature of ADE Reviewer

Date of Review



**State of Arizona
Department of Education**

Date: April 30, 2011
To: JTED Superintendents
From: Barbara Border, Deputy Associate Superintendent
State Director, Career and Technical Education
Jan Brite, Career Pathways Program Director
Subject: JTED Application Approvals

Thank you for the 2011-2012 Joint Technical Education District Course Approval Application submissions. The new electronic submission process seemed to work well from the ADE CTE perspective. Please make us aware of any problems you encountered or any suggestions for improvements to the system.

The applications have been reviewed and evaluated in accordance with the legislative requirements outlined in House Bill 2700. Attached is the Course Approval log for each program for which courses were submitted. Courses were reviewed and evaluated in the following ways:

- All courses offered in the program sequence may be “approved”.
- All courses offered in the program sequence may be “conditionally approved” indicating that additional information required by HB 2700 is needed in order to approve the course. State Supervisors may need to conduct an on-site review prior to determining approval status. Conditionally approved courses may continue for more than one year depending on the State Supervisor’s review. Do not consider conditionally approved courses fully approved until officially notified by the State Supervisor. Conditionally approved courses are eligible for funding.
- Some courses offered in the program sequence may not meet the requirements outlined in HB 2700 and other courses do meet the requirements; therefore, some courses in a program sequence may be “approved” and other courses may be “not approved.”
- All courses offered in the program sequence may be “not approved” indicating that none of the courses meet the requirements outlined in HB 2700 (i.e. program does not appear on the **2012 CTE Program List** as approved by the Arizona State Board of Education.)

State Supervisors for each of the program areas will work with JTED administrators and teachers throughout the 2011 fall semester to assist in bringing the “conditionally approved” programs and courses into fully “approved” status.

Every effort was made to evaluate the course applications based on the legislative requirements outlined in HB 2700 and entered into statute in 2006. However, if it is believed that a program or course was “not approved” in error, an appeals process has been established.

Please review the attached Course Approval log and if you have questions regarding a specific course or program sequence, please contact the State Supervisor of that program. If you have other questions please contact either Jan Brite 602-542-4365 or Barbara Border 602-542-5358.

Attachments:
JTED Course Approval Log
Appeals Process
State Supervisor Contact list



**State of Arizona
Department of Education**

May 17, 2011

Raymond Polvani
Chino Valley/Bradshaw Mountain High School
Mountain Institute JTED
Prescott Valley, AZ

Re: Culinary Arts Program JTED NOI

Dear Dr. Polvani,

I visited the Culinary Arts Programs at Chino Valley High School and Bradshaw Mountain High School on January 24, 2011. The remodel of the Chino Valley High School culinary lab is remarkable! Chino Valley students will have an excellent industry experience.

The purpose of this letter is to notify you that the Culinary Arts Programs at Chino Valley and Bradshaw Mountain High Schools have been approved.

The continuation of approval for the Culinary Arts Programs will be based upon the following:

1. A certified CTE teacher with relevant credentials/work experience
2. Alignment of the curriculum with the CTE Culinary Arts Standards
3. Evidence of a coherent sequence that includes a Career Exploration course followed by Career Preparation courses
4. Adequate facilities and equipment
5. The necessary rigor and relevance to master the Career Preparation standards such that a completer can successfully pass the Arizona Technical Skills Assessment for Culinary Arts given at the end of program
6. Examples of work-based learning experiences and/or projects
7. The development and utilization of an industry-based advisory committee
8. Active student participation in FCCLA

If I can be of further assistance please contact me at Ruth.Kerr@azed.gov.

Sincerely,

A handwritten signature in blue ink that reads "Ruth Kerr".

State Supervisor, Family and Consumer Sciences Education
Arizona Department of Education

Cc: Jan Brite, Education Program Director, ADE CTE
Kimberly Spitali, FCCLA State Advisor, ADE CTE
Jeremy Plumb, Program Director, Mountain Institute JTED

Joint Technical Education District (JTED) Course and Program Appeals Process

ADE CTE JTED Application Processes

Applications for new and continuing JTED programs and courses are submitted to the ADE CTE Section no later than December 31, each school year for the approval process. ADE CTE has 120 days to make determinations about approvals. (ARS 15-393)

ADE CTE Section reviews and makes a decision related to the status of the JTED program and each course. One of three decisions may be determined:

- Full approval of the program and each course for full funding for the year, without further review by ADE CTE.
- Conditional approval, with full funding for the year, with a review of the program and courses on site by a CTE program representative to receive full approval for the following year or non-approval for the next year.
- Non-approval of the program or one of the courses. This program and related courses are not eligible for funding for the year submitted. The program and each course may be resubmitted the following year, or the decision of non-approval may be appealed, using the following processes.

Process for JTED Appeals for Non-Approval of Programs or Courses

State Board of Career and Technological Education Advisory Committee Review and Recommendations Processes

- JTED submits a request to appeal to the State Board office or its delegated entity, the ADE CTE decision of non-approval for a program or course within 10 days* of the notice of disapproval from ADE CTE.
- The State Board of Career and Technological Education Advisory Committee along with the State Board Representative to this Committee will appoint a group of three to five individuals to serve on the Appeals Review Panel. Individuals selected will have no conflict of interest with any of the appeals to be heard.
- The JTED Appeals Review Panel will utilize the JTED Legislation in ARS 15-391 and the processes identified therein related to the ADE CTE program approval processes as the guidelines for their *recommendations* to uphold non-approval or to grant approval of the appeal.

JTED courses:

- lead toward a specific career, vocation or industry;
- are taught by an instructor certified to teach by Career and Technical Education by the State Board of Education or a postsecondary education institution;
- require specialized equipment or specialized instruction materials above and beyond the scope and cost of a standard CTE course;
- require students to obtain a passing score on an examination that demonstrates a level of skill or competency for that program of study that is accepted by a vocation or an industry;
- are offered for students in grades nine, 10, 11 and 12;
- are approved by JTED governing board; and
- meet standards of a career preparatory Career and Technical Education Program as determined by the Career and Technical Education Section of the Arizona Department of Education. These standards include—

- Courses are part of a program identified on the FY2008 CTE Program List approved by the State Board of Career and Technical Education for FY 08-09, or future lists as approved,
 - Sufficient staff, equipment and facilities are in place to implement courses and program,
 - Program standards addressed in a coherent sequence of courses, including integration of appropriate academic standards, utilizing industry-validated standards that lead to technical assessments,
 - Programs provide for articulation with advanced postsecondary education or career placement.
- If the Appeals Review Panel determines that they wish to hear or review written information from ADE, CTE, and the JTED, they request that both entities submit further information, be present to answer questions, or to make presentations.
- The State Board of Career and Technological Education Advisory Committee Appeals Review Panel will make a recommendation for approval or disapproval of the JTED program and/or courses. This recommendation will be forwarded within 10 days to the State Board of Career and Technological Education for their final action.

State Board of Career and Technological Education Actions

- The State Board of Career and Technological Education may review the recommendations of the Advisory Committee Appeals Review Panel related to each JTED Appeal.
- The State Board may place the item recommended for approval by the Appeals Review Panel on the Consent Agenda for the next regularly scheduled Board meeting, abiding with the timelines set for items to be considered.
- If the recommendation of Appeals Review Panel is to disapprove the JTED appeal, the JTED may request within 10 days that the item be placed on the State Board agenda for further review and action of the next regularly scheduled State Board meeting, abiding with the timelines set for items to be considered.
 - The State Board will determine if they wish to review written materials or hear testimony before making the final decision and action related to the appeal.
- The decisions by the State Board of Career and Technological Education will be final.
- Final notification will be provided to the JTED in writing within 15 days of the Board meeting where final action has been taken. A copy of the decision will also be forwarded to ADE CTE for their appropriate actions.

**FY 2011 CTE Related Placements- for SY2011-2012
Related Placements Over Concentrators Who Graduated**

CAVIAT				
Program	Description	Placements	Graduates	Rate
100200	Audio/Visual Technologies	2	3	66.67%
100300	Graphic Communications	16	24	66.67%
120500	Culinary Arts	36	60	60.00%
131200	Education Professions	4	6	66.67%
131210	Early Childhood Education	7	10	70.00%
151200	Information Technologies	9	10	90.00%
151300	Drafting and Design Technologies	7	13	53.85%
430100	Law Public Safety and Security	1	1	100.00%
460300	Electrical and Power Transmission Technologies	1	1	100.00%
460400	Construction Technologies	19	33	57.58%
470600	Transportation Technologies	21	38	55.26%
480500	Precision Manufacturing	1	1	100.00%
480508	Welding Technologies	22	38	57.89%
510800	Allied Health Services	1	1	100.00%
511600	Nursing Services	20	28	71.43%
520200	Business Mgmt & Admin Services	4	6	66.67%
520300	Accounting and Related Services	3	4	75.00%
521800	Marketing Management and Entrepreneurship	4	4	100.00%
521900	Design and Merchandising	7	11	63.64%

CAVIT				
Program	Description	Placements	Graduates	Rate
010100	Agricultural Business Management - Agriscience	16	23	69.57%
100200	Audio/Visual Technologies	3	4	75.00%
100300	Graphic Communications	8	49	16.33%
120400	Cosmetology	7	12	58.33%
120500	Culinary Arts	29	68	42.65%
131200	Education Professions	3	5	60.00%
131210	Early Childhood Education	22	40	55.00%
150000	Engineering Sciences	1	2	50.00%
151200	Information Technologies	1	3	33.33%
410100	Bioscience	9	11	81.82%
430100	Law Public Safety and Security	12	13	92.31%
430200	Fire Service	15	19	78.95%
460400	Construction Technologies	18	33	54.55%
470600	Transportation Technologies	7	13	53.85%
480508	Welding Technologies	2	12	16.67%
510800	Allied Health Services	29	55	52.73%
511600	Nursing Services	16	22	72.73%
513500	Therapeutic Massage	7	12	58.33%
520200	Business Mgmt & Admin Services	14	23	60.87%
520300	Accounting and Related Services	1	1	100.00%
521800	Marketing Management and Entrepreneurship	63	71	88.73%

Concentrators who graduated - students may concentrate in 1 or more programs

Schools may not have Concentrators/Placements in all CTE programs

**FY 2011 CTE Related Placements- for SY2011-2012
Related Placements Over Concentrators Who Graduated**

CTD				
Program	Description	Placements	Graduates	Rate
010100	Agricultural Business Management - Agriscience	34	52	65.38%
100200	Audio/Visual Technologies	2	10	20.00%
100300	Graphic Communications	3	3	100.00%
120500	Culinary Arts	18	46	39.13%
131200	Education Professions	8	8	100.00%
131210	Early Childhood Education	4	14	28.57%
150000	Engineering Sciences	1	2	50.00%
151200	Information Technologies	7	13	53.85%
151300	Drafting and Design Technologies	1	14	7.14%
410100	Bioscience	3	8	37.50%
430100	Law Public Safety and Security	2	11	18.18%
460400	Construction Technologies	20	25	80.00%
470600	Transportation Technologies	3	6	50.00%
510800	Allied Health Services	4	12	33.33%
511600	Nursing Services	6	6	100.00%
520200	Business Mgmt & Admin Services	20	27	74.07%
520300	Accounting and Related Services	5	5	100.00%
520900	Hospitality Management	3	3	100.00%
521800	Marketing Management and Entrepreneurship	26	43	60.47%

CVIT				
Program	Description	Placements	Graduates	Rate
010100	Agricultural Business Management - Agriscience	1	4	25.00%
100300	Graphic Communications	1	9	11.11%
120500	Culinary Arts	7	22	31.82%
131210	Early Childhood Education	6	9	66.67%
151300	Drafting and Design Technologies	2	3	66.67%
460400	Construction Technologies	3	6	50.00%
470600	Transportation Technologies	2	3	66.67%
511600	Nursing Services	6	9	66.67%
520200	Business Mgmt & Admin Services	7	13	53.85%
520900	Hospitality Management	7	10	70.00%
521800	Marketing Management and Entrepreneurship	2	6	33.33%
		44	94	

Concentrators who graduated - students may concentrate in 1 or more programs

Schools may not have Concentrators/Placements in all CTE programs

**FY 2011 CTE Related Placements- for SY2011-2012
Related Placements Over Concentrators Who Graduated**

MILITED				
Program	Description	Placements	Graduates	Rate
010100	Agricultural Business Management - Agriscience	17	22	77.27%
100200	Audio/Visual Technologies	2	7	28.57%
120500	Culinary Arts	6	8	75.00%
151200	Information Technologies	3	9	33.33%
410100	Bioscience	1	2	50.00%
460400	Construction Technologies	1	3	33.33%
470600	Transportation Technologies	4	5	80.00%
480508	Welding Technologies	4	7	57.14%
511600	Nursing Services	9	16	56.25%
520200	Business Mgmt & Admin Services	8	8	100.00%
521800	Marketing Management and Entrepreneurship	1	1	100.00%

NATIVE				
Program	Description	Placements	Graduates	Rate
010100	Agricultural Business Management - Agriscience	21	31	67.74%
100300	Graphic Communications	17	42	40.48%
120500	Culinary Arts	10	29	34.48%
131200	Education Professions	2	2	100.00%
131210	Early Childhood Education	11	20	55.00%
150000	Engineering Sciences	1	1	100.00%
150300	Electronic Technologies	1	3	33.33%
151200	Information Technologies	1	2	50.00%
151300	Drafting and Design Technologies	9	17	52.94%
430100	Law Public Safety and Security	1	5	20.00%
460400	Construction Technologies	26	57	45.61%
470600	Transportation Technologies	10	28	35.71%
480508	Welding Technologies	55	114	48.25%
490200	Heavy Equipment Operations	1	6	16.67%
511600	Nursing Services	25	48	52.08%
520200	Business Mgmt & Admin Services	6	14	42.86%
520400	Business Operations Support and Assistant Services	1	4	25.00%
520900	Hospitality Management	1	3	33.33%
521800	Marketing Management and Entrepreneurship	2	9	22.22%

Concentrators who graduated - students may concentrate in 1 or more programs
Schools may not have Concentrators/Placements in all CTE programs

**FY 2011 CTE Related Placements- for SY2011-2012
Related Placements Over Concentrators Who Graduated**

VACTE				
Program	Description	Placements	Graduates	Rate
010100	Agricultural Business Management - Agriscience	11	12	91.67%
100200	Audio/Visual Technologies	15	21	71.43%
100300	Graphic Communications	25	53	47.17%
131200	Education Professions	8	9	88.89%
150000	Engineering Sciences	1	2	50.00%
151300	Drafting and Design Technologies	2	4	50.00%
430200	Fire Service	3	4	75.00%
460400	Construction Technologies	4	4	100.00%
470600	Transportation Technologies	11	18	61.11%
480508	Welding Technologies	2	2	100.00%
500100	Performing Arts and Entertainment Industry	2	3	66.67%
510800	Allied Health Services	4	6	66.67%
511600	Nursing Services	12	14	85.71%
520200	Business Mgmt & Admin Services	19	24	79.17%

WAVE				
Program	Description	Placements	Graduates	Rate
010100	Agricultural Business Management - Agriscience	4	13	30.77%
100200	Audio/Visual Technologies	11	24	45.83%
100300	Graphic Communications	14	44	31.82%
120500	Culinary Arts	15	33	45.45%
131210	Early Childhood Education	14	25	56.00%
151200	Information Technologies	9	12	75.00%
151300	Drafting and Design Technologies	9	13	69.23%
430100	Law Public Safety and Security	3	8	37.50%
430200	Fire Service	1	1	100.00%
460400	Construction Technologies	4	12	33.33%
470600	Transportation Technologies	9	15	60.00%
510800	Allied Health Services	6	10	60.00%
520200	Business Mgmt & Admin Services	37	44	84.09%
520800	Financial Services	1	1	100.00%
521800	Marketing Management and Entrepreneurship	5	6	83.33%

Concentrators who graduated - students may concentrate in 1 or more programs

Schools may not have Concentrators/Placements in all CTE programs

**FY 2011 CTE Related Placements- for SY2011-2012
Related Placements Over Concentrators Who Graduated**

WestMEC				
Program	Description	Placements	Graduates	Rate
010100	Agricultural Business Management - Agriscience	56	103	54.37%
100200	Audio/Visual Technologies	73	151	48.34%
100300	Graphic Communications	144	247	58.30%
120400	Cosmetology	53	87	60.92%
120500	Culinary Arts	393	674	58.31%
131200	Education Professions	86	120	71.67%
131210	Early Childhood Education	97	148	65.54%
150000	Engineering Sciences	40	86	46.51%
151200	Information Technologies	118	180	65.56%
151300	Drafting and Design Technologies	110	160	68.75%
430100	Law Public Safety and Security	49	91	53.85%
430200	Fire Service	13	23	56.52%
460400	Construction Technologies	66	140	47.14%
470600	Transportation Technologies	96	166	57.83%
480500	Precision Manufacturing	18	31	58.06%
480508	Welding Technologies	20	35	57.14%
510800	Allied Health Services	188	259	72.59%
510900	Diagnostic and Intervention Technologies	44	66	66.67%
511600	Nursing Services	213	248	85.89%
520200	Business Mgmt & Admin Services	57	127	44.88%
520300	Accounting and Related Services	65	104	62.50%
520800	Financial Services	3	3	100.00%
521800	Marketing Management and Entrepreneurship	270	319	84.64%
521900	Design and Merchandising	27	38	71.05%

Concentrators who graduated - students may concentrate in 1 or more programs

Schools may not have Concentrators/Placements in all CTE programs

2011-2012 Cost Reporting Summaries

10	A	B	C	D	E	F	G	H	I	J	K	L								
11			Name:	CTD(\$)	FORM D 2011-2012 JTED Program Cost JTED DISTRICT SUMMARY FORM															
12																				
13			JTED CTD:																	
14																				
15																				
16			Program Number	ADE Program Title	Program Cost	Salaries 61XX	ERE 62XX	Purchased Services 63XX, 64XX, 65XX	Supplier (Textbook & Inst. Aids) 66XX	Property (including Land & Bldg. Equipment) 67XX	Other 68XX									
17			52.0300	Accounting and Related Services																
18			01.0100	Agricultural Business Management - Agriscience																
19			49.0100	Air Transportation																
20			51.0800	Allied Health Services																
21			41.0100	Bioscience																
22			52.0200	Business Management and Administration Services																
23			52.0400	Business Operations Support and Assistant Services																
24			46.0400	Construction Technologies																
25			12.0400	Cosmetology																
26			12.0500	Culinary Arts																
27			51.0600	Dental Assisting																
28			52.1900	Design and Merchandising																
29			51.0900	Diagnostic and Intervention Technologies																
30			15.1300	Drafting and Design Technologies																
31			13.1210	Education and Training: Early Childhood Education																
32			13.1200	Education and Training: Education Professionals																
33			46.0300	Electrical and Power Transmission Technologies																
34			47.0100	Electrical Systems Installation and Maintenance Technologies																
35			15.0300	Electronic Technologies																
36			15.0000	Engineering Sciences																
37			52.0800	Financial Services																
38			43.0200	Fire Service																
39			10.0300	Graphic Communications																
40			47.0200	Heating, Ventilation and Air Conditioning																
41			49.0200	Heavy Equipment Operations																
42			47.0300	Heavy Industrial Equipment Maintenance Technologies																
43			52.0900	Hospitality Management																
44			15.1200	Information Technologies																
45			43.0100	Law, Public Safety and Security																
46			52.1800	Marketing, Management and Entrepreneurship																
47			51.1500	Mental and Social Health Services																
48			10.0200	Multimedia Technologies																
49			51.3900	Nursing Services																
50			50.0500	Performing Arts and Entertainment Industry																
51			48.0500	Precision Manufacturing																
52			51.2500	Therapeutic Massage																
53			47.0600	Transportation Technologies																
54			48.0500	Welding Technologies																
55				MEMBER DISTRICT TOTAL																
56				Total JTED Expenditures per Member Districts Memorandum 219 Report																
57				Total JTED Expenditures from "OTHER" sources of funds (forest fees, donations, tax credits, etc)																
58				Total JTED Perkins Expenditures per Member Districts' Completion Reports (per ADE/CTE office)																
59				Total JTED State Vocational Block Grant Expenditures per Member Districts' Completion Reports (per ADE/CTE office)																
60																				
61																				
62																				
63																				
64																				
65																				
66																				
67																				
68																				
69																				
70																				

- Each sheet contains the summary data for a JTED member district.
- There is a similar application supplied to each member district that allowed them to load their cost data by campus to facilitate the summative of aggregate program course cost of member district.

JTED Cost Reporting Worksheet

2011- 2012 JTED- CAVIAT- 030801
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
52.0300	Accounting and Related Services	\$ 50,842.42
51.0800	Allied Health Services	\$ 27,077.31
52.0200	Business Management and Administration Services	\$ 112,073.66
46.0400	Construction Technologies	\$ 301,250.65
12.0500	Culinary Arts	\$ 704,144.04
52.1900	Design and Merchandising	\$ 51,805.13
15.1300	Drafting and Design Technologies	\$ 33,806.69
13.1210	Education and Training: Early Childhood Education	\$ 79,612.66
13.1200	Education and Training: Education Professions	\$ 26,132.05
46.0300	Electrical and Power Transmission Technologies	\$ 13,786.00
52.0800	Financial Services	\$ 23,202.03
10.0300	Graphic Communications	\$ 309,921.34
15.1200	Information Technologies	\$ 211,398.10
43.0100	Law, Public Safety and Security	\$ 53,490.20
52.1800	Marketing, Management and Entrepreneurship	\$ 53,623.39
51.3900	Nursing Services	\$ 210,494.16
50.0500	Performing Arts and Entertainment Industry	\$ 10,410.41
48.0500	Precision Manufacturing	\$ 198,757.65
47.0600	Transportation Technologies	\$ 214,139.68
48.0508	Welding Technologies	\$ 169,859.08
GRAND TOTAL		\$ 2,855,826.64

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	43%	42%	66%
ERE	9%	10%	22%
Purchased Services	3%	8%	82%
Supplies	3%	6%	35%
Property	1%	1%	20%
Other	53%	29%	100%

1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown

If there is no data available or if there are \$0 reported, 0 % is shown

No modal value found from the data reported, 0% is shown.

<p>Member Districts Flagstaff USD Fredonia-Moccasin USD Grand Canyon USD Page USD Williams USD</p>
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JTED Cost Reporting Worksheet

2011-2012- JTED- CAVIAT- 030801
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS						
	CAVIAT Central	Flagstaff USD	Fredonia Moccasin USD	Grand Canyon USD	Page USD	Williams USD	Grand Total
Accounting and Related Services		\$ 26,426.31			\$ 24,416.11		\$ 50,842.42
Agricultural Business Management - Agriscience							
Air Transportation							
Allied Health Services		\$ 27,077.31					\$ 27,077.31
Business Management and Administration Services	\$ 46,248.77	\$ 55,368.28				\$ 10,456.61	\$ 112,073.66
Construction Technologies		\$ 216,832.76	\$ 39,090.79		\$ 33,874.29	\$ 11,452.81	\$ 301,250.65
Culinary Arts		\$ 601,679.64		\$ 23,848.56	\$ 37,559.89	\$ 41,055.95	\$ 704,144.04
Design and Merchandising		\$ 51,805.13					\$ 51,805.13
Drafting and Design Technologies					\$ 10,966.75	\$ 22,839.94	\$ 33,806.69
Education and Training: Early Childhood Education	\$ 14,592.57	\$ 46,406.01	\$ 18,614.08				\$ 79,612.66
Education and Training: Education Professions					\$ 26,132.05		\$ 26,132.05
Electrical and Power Transmission Technologies	\$ 13,786.00						\$ 13,786.00
Financial Services				\$ 23,202.03			\$ 23,202.03
Graphic Communications		\$ 88,574.10			\$ 221,347.24		\$ 309,921.34
Information Technologies	\$ 47,510.58	\$ 59,101.87			\$ 104,785.65		\$ 211,398.10
Law, Public Safety and Security	\$ 42,485.88		\$ 11,004.32				\$ 53,490.20
Marketing, Management and Entrepreneurship					\$ 53,623.39		\$ 53,623.39
Nursing Services	\$ 142,678.91	\$ 27,694.96			\$ 40,120.29		\$ 210,494.16
Performing Arts and Entertainment Industry					\$ 10,410.41		\$ 10,410.41
Precision Manufacturing		\$ 175,570.41				\$ 23,187.24	\$ 198,757.65
Transportation Technologies		\$ 153,178.85	\$ 19,582.87		\$ 41,377.96		\$ 214,139.68
Welding Technologies		\$ 107,812.59	\$ 19,582.87		\$ 42,463.62		\$ 169,859.08
GRAND TOTAL	\$ 307,302.71	\$ 1,637,528.22	\$ 107,874.93	\$ 47,050.59	\$ 647,077.64	\$ 108,992.55	\$ 2,855,826.64

2011- 2012 JTED- CAVIT- 110801
 Program Cost Aggregate Total

JTED Cost Reporting Worksheet

Number	Program Title	Total Aggregate Program Cost
01.0100	Agricultural Business Management - Agriscience	\$ 39,771.54
51.0800	Allied Health Services	\$ 25,884.30
52.0200	Business Management and Administration Services	\$ 38,340.84
52.0400	Business Operations Support and Assistant Services	\$ 20,901.93
46.0400	Construction Technologies	\$ 102,294.49
12.0500	Culinary Arts	\$ 198,634.46
13.1210	Education and Training: Early Childhood Education	\$ 70,364.32
13.1200	Education and Training: Education Professions	\$ 60,616.18
15.0000	Engineering Sciences	\$ 29,204.34
52.0800	Financial Services	\$ 3,866.69
43.0200	Fire Service	\$ 41,370.32
10.0300	Graphic Communications	\$ 42,206.83
52.0900	Hospitality Management	\$ 11,816.12
15.1200	Information Technologies	\$ 75,799.05
52.1800	Marketing, Management and Entrepreneurship	\$ 92,446.11
10.0200	Multimedia Technologies	\$ 66,372.83
47.0600	Transportation Technologies	\$ 91,179.87
GRAND TOTAL		\$ 1,011,070.22

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	70%	63%	92%
ERE	14%	21%	68%
Purchased Services	4%	4%	38%
Supplies	0%	12%	52%
Property	0%	19%	60%
Other	13%	14%	100%

1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown.

<p>Member Districts</p> <p>Casa Grande Union HSD</p> <p>Coolidge USD</p> <p>Florence USD</p> <p>Maricopa USD</p> <p>Santa Cruz Valley Union HSD</p>
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JTED Cost Reporting Worksheet

2011-2012 JTED- CAVIT- 110801
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS					
	Casa Grande Union HSD	Coolidge USD	Florence USD	Maricopa USD	Santa Cruz Valley Union HSD	Grand Total
Agricultural Business Management - Agriscience	\$ 17,525.20	\$ 13,497.34	\$ 8,749.00			\$ 39,771.54
Allied Health Services	\$ 7,868.31	\$ 18,015.99				\$ 25,884.30
Business Management and Administration Services		\$ 27,180.84	\$ 11,160.00			\$ 38,340.84
Business Operations Support and Assistant Services	\$ 9,840.93		\$ 11,061.00			\$ 20,901.93
Construction Technologies	\$ 50,893.26	\$ 25,860.57	\$ 10,479.00		\$ 15,061.66	\$ 102,294.49
Culinary Arts	\$ 108,980.64	\$ 8,279.71	\$ 20,047.00	\$ 44,844.54	\$ 16,482.57	\$ 198,634.46
Education and Training: Early Childhood Education	\$ 61,754.61	\$ 8,609.71				\$ 70,364.32
Education and Training: Education Professions		\$ 7,150.18	\$ 53,466.00			\$ 60,616.18
Engineering Sciences		\$ 28,035.34	\$ 1,169.00			\$ 29,204.34
Financial Services	\$ 3,866.69					\$ 3,866.69
Fire Service		\$ 41,370.32				\$ 41,370.32
Graphic Communications	\$ 24,149.68			\$ 18,057.15		\$ 42,206.83
Hospitality Management	\$ 2,993.12		\$ 8,823.00			\$ 11,816.12
Information Technologies	\$ 51,539.77			\$ 24,259.28		\$ 75,799.05
Marketing, Management and Entrepreneurship	\$ 72,459.63			\$ 19,986.48		\$ 92,446.11
Multimedia Technologies			\$ 19,784.00	\$ 46,588.83		\$ 66,372.83
Transportation Technologies	\$ 24,162.15			\$ 67,017.72		\$ 91,179.87
GRAND TOTAL	\$ 436,033.99	\$ 178,000.00	\$ 144,738.00	\$ 220,754.00	\$ 31,544.23	\$ 1,011,070.22

JTED Cost Reporting Worksheet

2011-2012 JTED- CTD- 020801
Program Aggregate Total

Number	Program Title	Total Aggregate Program Cost
52.0300	Accounting and Related Services	\$ 39,401.75
01.0100	Agricultural Business Management - Agriscience	\$ 323,738.49
51.0800	Allied Health Services	\$ 61,151.61
41.0100	Bioscience	\$ 121,936.18
52.0200	Business Management and Administration Services	\$ 61,424.33
52.0400	Business Operations Support and Assistant Services	\$ 53,293.51
46.0400	Construction Technologies	\$ 115,941.82
12.0500	Culinary Arts	\$ 188,638.50
15.1300	Drafting and Design Technologies	\$ 13,778.81
13.1210	Education and Training: Early Childhood Education	\$ 78,312.45
13.1200	Education and Training: Education Professions	\$ 10,813.96
15.0000	Engineering Sciences	\$ 45,938.42
43.0200	Fire Service	\$ 58,051.61
10.0300	Graphic Communications	\$ 18,490.70
15.1200	Information Technologies	\$ 65,880.79
43.0100	Law, Public Safety and Security	\$ 14,665.25
52.1800	Marketing, Management and Entrepreneurship	\$ 107,508.01
10.0200	Multimedia Technologies	\$ 81,365.83
51.3900	Nursing Services	\$ 23,283.27
47.0600	Transportation Technologies	\$ 55,604.18
48.0508	Welding Technologies	\$ 30,289.73
GRAND TOTAL		\$ 1,569,509.20

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	60%	65%	83%
ERE	10%	14%	33%
Purchased Services	4%	9%	34%
Supplies	7%	9%	53%
Rentals	4%	7%	74%
Books & Inst Aids	17%	4%	46%

1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown.

<p>Member Districts</p> <p>Benson Unified SD</p> <p>Bowie Unified SD</p> <p>Douglas Unified SD</p> <p>San Simon Unified SD</p> <p>* Sierra Vista Unified SD</p> <p>St. David Unified SD</p> <p>Tombstone Unified SD</p> <p>Valley Union HSD</p> <p>Wilcox Unified SD</p>

*New member- no JTED cost for SFY 2012

JTED Cost Reporting Worksheet

2011-2012 JTED- CTD- 020801
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS								
	Benson USD	Bowie USD	Douglas USD	San Simon USD	St. David USD	Tombstone USD	Valley Union HSD	Willcox USD	Grand Total
Accounting and Related Services	\$ 39,401.75								\$ 39,401.75
Agricultural Business Management - Agriscience	\$ 29,800.73	\$ 16,967.82	\$ 54,019.83	\$ 29,574.33	\$ 23,929.22	\$ 37,547.56	\$ 50,045.00	\$ 81,854.00	\$ 323,738.49
Allied Health Services			\$ 61,151.61						\$ 61,151.61
Bioscience			\$ 121,936.18						\$ 121,936.18
Business Management and Administration Services						\$ 28,182.33	\$ 33,242.00		\$ 61,424.33
Business Operations Support and Assistant Services			\$ 53,293.51						\$ 53,293.51
Construction Technologies	\$ 46,915.54					\$ 45,647.28		\$ 23,379.00	\$ 115,941.82
Culinary Arts	\$ 62,986.39	\$ 7,592.69	\$ 40,509.31		\$ 16,085.30	\$ 37,415.81	\$ 24,049.00		\$ 188,638.50
Drafting and Design Technologies			\$ 13,778.81						\$ 13,778.81
Education and Training: Early Childhood Education			\$ 57,265.99		\$ 21,046.46				\$ 78,312.45
Education and Training: Education Professions			\$ 10,813.96						\$ 10,813.96
Engineering Sciences	\$ 2,437.92		\$ 43,500.50						\$ 45,938.42
Fire Service			\$ 58,051.61						\$ 58,051.61
Graphic Communications	\$ 4,263.65		\$ 14,227.05						\$ 18,490.70
Information Technologies			\$ 13,980.96		\$ 16,316.49	\$ 35,583.34			\$ 65,880.79
Law, Public Safety and Security			\$ 14,665.25						\$ 14,665.25
Marketing, Management and Entrepreneurship	\$ 50,954.60		\$ 30,079.92		\$ 16,316.49			\$ 10,157.00	\$ 107,508.01
Multimedia Technologies			\$ 69,197.83					\$ 12,168.00	\$ 81,365.83
Nursing Services	\$ 6,486.43		\$ 15,656.84				\$ 1,140.00		\$ 23,283.27
Transportation Technologies			\$ 40,183.18					\$ 15,421.00	\$ 55,604.18
Welding Technologies	\$ 30,289.73								\$ 30,289.73
GRAND TOTAL	\$ 273,536.74	\$ 24,560.51	\$ 712,312.34	\$ 29,574.33	\$ 93,693.96	\$ 184,376.32	\$ 108,476.00	\$ 142,979.00	\$ 1,569,509.20

JTED Cost Reporting Worksheet

2011- 2012 JTED- CVIT- 110802
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
01.0100	Agricultural Business Management - Agriscience	\$ 88,734.76
52.0200	Business Management and Administration Services	\$ 8,533.24
46.0400	Construction Technologies	\$ 57,286.19
12.0500	Culinary Arts	\$ 49,859.17
15.1300	Drafting and Design Technologies	\$ 15,589.00
13.1210	Education and Training: Early Childhood Education	\$ 44,471.13
13.1200	Education and Training: Education Professions	\$ 6,982.87
47.0100	Electrical Systems Installation and Maintenance Technologies	\$ 455.59
43.0200	Fire Service	\$ 345.63
10.0300	Graphic Communications	\$ 22,774.17
52.0900	Hospitality Management	\$ 9,100.24
52.1800	Marketing, Management and Entrepreneurship	\$ 34,309.83
10.0200	Multimedia Technologies	\$ 39,764.27
51.3900	Nursing Services	\$ 73,080.29
47.0600	Transportation Technologies	\$ 24,434.49
48.0508	Welding Technologies	\$ 84,199.19
GRAND TOTAL		\$ 559,920.06

Reported Aggregate Program Course Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	25%	42%	70%
ERE	18%	8%	25%
Purchased Services	9%	6%	100%
Supplies	28%	17%	52%
Property	0%	34%	68%
Other	1%	3%	100%

1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown

If there is no data available or if there are \$0 reported, 0 % is shown

No modal value found from the data reported, 0% is shown

<p>Member Districts</p> <p>Globe USD</p> <p>Hayden-Windelman USD</p> <p>Miami USD</p> <p>San Carlos USD</p> <p>Superior USD</p>
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JTED Cost Reporting Worksheet

2011-2012 JTED- CVIT- 110802
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS						
	CVIT Central	Globe USD	Hayden-Winkelman USD	Miami USD	San Carlos USD	Superior USD	Grand Total
Agricultural Business Management - Agriscience		\$ 55,577.76			\$ 33,157.00		\$ 88,734.76
Business Management and Administration Services		\$ 8,533.24					\$ 8,533.24
Construction Technologies		\$ 23,268.19			\$ 34,018.00		\$ 57,286.19
Culinary Arts					\$ 20,759.00	\$ 29,100.17	\$ 49,859.17
Drafting and Design Technologies					\$ 15,589.00		\$ 15,589.00
Education and Training: Early Childhood Education			\$ 10,536.55			\$ 33,934.58	\$ 44,471.13
Education and Training: Education Professions						\$ 6,982.87	\$ 6,982.87
Electrical Systems Installation and Maintenance Technologies	\$ 455.59						\$ 455.59
Fire Service	\$ 345.63						\$ 345.63
Graphic Communications	\$ 9,980.17			\$ 12,794.00			\$ 22,774.17
Hospitality Management		\$ 9,100.24					\$ 9,100.24
Marketing, Management and Entrepreneurship			\$ 7,801.45	\$ 16,346.00		\$ 10,162.38	\$ 34,309.83
Multimedia Technologies		\$ 8,069.08		\$ 16,861.19	\$ 14,834.00		\$ 39,764.27
Nursing Services	\$ 43,664.29				\$ 29,416.00		\$ 73,080.29
Transportation Technologies		\$ 24,434.49					\$ 24,434.49
Welding Technologies	\$ 25,319.38			\$ 58,879.81			\$ 84,199.19
GRAND TOTAL	\$ 79,765.06	\$ 128,983.00	\$ 18,338.00	\$ 104,881.00	\$ 147,773.00	\$ 80,180.00	\$ 559,920.06

JTED Cost Reporting Worksheet

2011-2012 JTED- EVIT- 070801
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
01.0100	Agricultural Business Management - Agriscience	\$ 1,078,017.55
49.0100	Air Transportation	\$ 67,335.66
51.0800	Allied Health Services	\$ 1,148,042.41
41.0100	Bioscience	\$ 2,294,625.99
52.0200	Business Management and Administration Services	\$ 246,761.37
52.0400	Business Operations Support and Assistant Services	\$ 593,234.92
46.0400	Construction Technologies	\$ 378,550.95
12.0400	Cosmetology	\$ 315,038.23
12.0500	Culinary Arts	\$ 1,894,728.51
51.0600	Dental Assisting	\$ 24,881.99
52.1900	Design and Merchandising	\$ 612,280.06
51.0900	Diagnostic and Intervention Technologies	\$ 11,217.77
15.1300	Drafting and Design Technologies	\$ 311,605.40
13.1210	Education and Training: Early Childhood Education	\$ 672,221.43
13.1200	Education and Training: Education Professions	\$ 723,506.63
15.0300	Electronic Technologies	\$ 15,060.23
15.0000	Engineering Sciences	\$ 521,426.58
52.0800	Financial Services	\$ 100,306.00
43.0200	Fire Service	\$ 73,386.12
10.0300	Graphic Communications	\$ 2,510,086.06
47.0200	Heating, Ventilation and Air Conditioning	\$ 10,533.72
52.0900	Hospitality Management	\$ 169,287.84
15.1200	Information Technologies	\$ 1,191,841.94
43.0100	Law, Public Safety and Security	\$ 798,295.66
52.1800	Marketing, Management and Entrepreneurship	\$ 904,454.65
10.0200	Multimedia Technologies	\$ 1,447,538.33
51.3900	Nursing Services	\$ 499,494.71
50.0500	Performing Arts and Entertainment Industry	\$ 508,025.47
48.0500	Precision Manufacturing	\$ 103,133.01
51.3500	Therapeutic Massage	\$ 102,776.43
47.0600	Transportation Technologies	\$ 826,103.50
48.0508	Welding Technologies	\$ 452,390.82
GRAND TOTAL		\$ 20,606,189.94

Reported Aggregate Program Cost			
Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	38%	73%	99%
ERE	21%	20%	92%
Purchased Services	1%	4%	35%
Supplies	1%	3%	36%
Property	1%	3%	52%
Other	1%	1%	6%

1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown

Member Districts
Apache Junction USD
Chandler USD
Fountain Hills USD
Gilbert USD
Higley USD
J O Combs UD
Mesa USD
Queen Creek USD
Scottsdale USD
Tempe USD

JTED Cost Reporting Worksheet

2011-2012 JTED- EVIT- 070801
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS											Grand Total
	AJ USD	Chandler USD	EVIT Central	Ft.Hills USD	Gilbert USD	Higley USD	JO COMBS USD	Mesa USD	Queen Creek USD	Scottsdale USD	Tempe UHSD	
Agricultural Business Management - Agriscience		\$ 277,417.00			\$ 519,862.24		\$ 44,496.50	\$ 160,364.00	\$ 75,877.81			\$ 1,078,017.55
Air Transportation			\$ 67,335.66									\$ 67,335.66
Allied Health Services	\$ 57,668.30	\$ 215,252.00	\$ 156,298.48		\$ 383,226.20	\$ 25,343.26		\$ 290,439.00	\$ 19,815.17			\$ 1,148,042.41
Bioscience		\$ 85,017.00	\$ 2,993.80		\$ 78,881.49	\$ 126,641.05		\$ 174,652.00		\$ 60,621.00	\$ 1,765,819.65	\$ 2,294,625.99
Business Management and Administration Services	\$ 56,324.19	\$ 47,423.00									\$ 143,014.18	\$ 246,761.37
Business Operations Support and Assistant Services					\$ 583,690.32		\$ 9,544.60					\$ 593,234.92
Construction Technologies	\$ 51,807.01	\$ 9,055.00	\$ 32,284.77		\$ 84,710.49			\$ 144,678.00	\$ 52,072.95		\$ 3,942.73	\$ 378,550.95
Cosmetology			\$ 315,038.23									\$ 315,038.23
Culinary Arts	\$ 62,846.69	\$ 163,263.00	\$ 112,068.11		\$ 466,390.94			\$ 760,134.00	\$ 83,374.38	\$ 83,080.00	\$ 163,571.39	\$ 1,894,728.51
Dental Assisting			\$ 24,881.99									\$ 24,881.99
Design and Merchandising		\$ 23,959.00	\$ 65,626.99		\$ 240,137.17		\$ 29,183.72	\$ 97,098.00	\$ 13,004.97	\$ 44,385.00	\$ 98,885.21	\$ 612,280.06
Diagnostic and Intervention Technologies			\$ 11,217.77									\$ 11,217.77
Drafting and Design Technologies		\$ 104,425.00		\$ 8,073.99				\$ 123,323.00	\$ 30,313.41	\$ 45,470.00		\$ 311,605.40
Education and Training: Early Childhood Education	\$ 68,355.38	\$ 48,665.00	\$ 33,949.64		\$ 218,236.16		\$ 44,494.81		\$ 68,212.81	\$ 105,059.00	\$ 85,248.63	\$ 672,221.43
Education and Training: Education Professions		\$ 41,819.00		\$ 18,808.43	\$ 155,455.20			\$ 494,781.00		\$ 12,643.00		\$ 723,506.63
Electronic Technologies			\$ 15,060.23									\$ 15,060.23
Engineering Sciences		\$ 59,080.00			\$ 79,598.49	\$ 33,575.45		\$ 75,506.00			\$ 273,666.64	\$ 521,426.58
Financial Services								\$ 32,313.00		\$ 67,993.00		\$ 100,306.00
Fire Service			\$ 73,386.12									\$ 73,386.12
Graphic Communications	\$ 53,389.88	\$ 338,919.00	\$ 103,708.59	\$ 74,617.81	\$ 350,099.86	\$ 66,935.43		\$ 267,482.00	\$ 27,280.41	\$ 67,045.00	\$ 1,160,608.08	\$ 2,510,086.06
Heating, Ventilation and Air Conditioning			\$ 10,533.72									\$ 10,533.72
Hospitality Management				\$ 50,237.84						\$ 119,050.00		\$ 169,287.84
Information Technologies		\$ 104,020.00	\$ 29,805.36		\$ 141,067.68	\$ 37,613.90		\$ 583,324.00		\$ 296,011.00		\$ 1,191,841.94
Law, Public Safety and Security			\$ 57,834.70						\$ 11,618.51		\$ 728,842.45	\$ 798,295.66
Marketing, Management and Entrepreneurship		\$ 67,127.00			\$ 257,293.62	\$ 107,995.65	\$ 9,544.56	\$ 300,062.00	\$ 88,601.82	\$ 73,830.00		\$ 904,454.65
Multimedia Technologies		\$ 339,927.00	\$ 146,445.49	\$ 30,606.25	\$ 221,635.16	\$ 105,145.98		\$ 240,191.00	\$ 34,211.99	\$ 189,368.00	\$ 140,007.46	\$ 1,447,538.33
Nursing Services		\$ 276,611.00	\$ 130,540.76	\$ 28,099.95						\$ 64,243.00		\$ 499,494.71
Performing Arts and Entertainment Industry									\$ 10,869.89	\$ 42,851.00	\$ 454,304.58	\$ 508,025.47
Precision Manufacturing			\$ 12,580.52		\$ 90,552.49							\$ 103,133.01
Therapeutic Massage			\$ 102,776.43									\$ 102,776.43
Transportation Technologies		\$ 7,509.00	\$ 246,734.01		\$ 83,105.49			\$ 488,755.00				\$ 826,103.50
Welding Technologies	\$ 52,197.39		\$ 62,421.43					\$ 337,772.00				\$ 452,390.82
GRAND TOTAL	\$ 402,588.84	\$ 2,209,488.00	\$ 1,813,522.80	\$ 210,444.27	\$ 3,953,943.00	\$ 503,250.72	\$ 137,264.19	\$ 4,570,874.00	\$ 515,254.12	\$ 1,271,649.00	\$ 5,017,911.00	\$ 20,606,189.94

JTED Cost Reporting Worksheet

2011-2012 JTED- GIFT- 050802
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
01.0100	Agricultural Business Management - Agriscience	\$ 92,173.13
51.0800	Allied Health Services	\$ 103,432.94
52.0200	Business Management and Administration Services	\$ 165,973.34
52.0400	Business Operations Support and Assistant Services	\$ 70,892.00
46.0400	Construction Technologies	\$ 63,404.00
12.0400	Cosmetology	\$ 146,474.98
12.0500	Culinary Arts	\$ 151,414.22
15.1300	Drafting and Design Technologies	\$ 83,054.93
13.1210	Education and Training: Early Childhood Education	\$ 22,486.61
43.0200	Fire Service	\$ 44,075.17
10.0300	Graphic Communications	\$ 61,498.94
15.1200	Information Technologies	\$ 50,189.61
43.0100	Law, Public Safety and Security	\$ 36,439.31
10.0200	Multimedia Technologies	\$ 32,569.99
51.3900	Nursing Services	\$ 101,583.11
48.0500	Precision Manufacturing	\$ 6,747.64
47.0600	Transportation Technologies	\$ 108,532.98
48.0508	Welding Technologies	\$ 58,891.49
GRAND TOTAL		\$ 1,399,834.39

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	74%	54%	94%
ERE	7%	15%	29%
Purchased Services	4%	7%	73%
Supplies	1%	9%	66%
Property	8%	21%	82%
Other	2%	2%	28%

1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown

<p>Member Districts</p> <p>Duncan USD</p> <p>Ft. Thomas USD</p> <p>Morenci USD</p> <p>Pima USD</p> <p>Safford USD</p> <p>Thatcher USD</p>
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JTED Cost Reporting Worksheet

2011-2012 JTED- GIFT- 050802
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS							
	Duncan USD	Ft. Thomas USD	GIFT Central	Morenci USD	Pima USD	Safford USD	Thatcher USD	Grand Total
Agricultural Business Management - Agriscience	\$ 14,673.31	\$ 43,332.82				\$ 34,167.00		\$ 92,173.13
Allied Health Services			\$ 103,432.94					\$ 103,432.94
Business Management and Administration Services	\$ 24,687.14	\$ 27,615.84			\$ 11,665.79	\$ 24,608.00	\$ 77,396.57	\$ 165,973.34
Business Operations Support and Assistant Services						\$ 70,892.00		\$ 70,892.00
Construction Technologies		\$ 26,402.49			\$ 12,327.52		\$ 24,673.99	\$ 63,404.00
Cosmetology			\$ 146,474.98					\$ 146,474.98
Culinary Arts				\$ 58,614.54	\$ 30,963.45	\$ 54,895.00	\$ 6,941.23	\$ 151,414.22
Drafting and Design Technologies	\$ 47,424.05		\$ 35,630.88					\$ 83,054.93
Education and Training: Early Childhood Education				\$ 2,483.61		\$ 20,003.00		\$ 22,486.61
Fire Service			\$ 44,075.17					\$ 44,075.17
Graphic Communications			\$ 32,365.60		\$ 29,133.34			\$ 61,498.94
Information Technologies			\$ 31,762.61			\$ 18,427.00		\$ 50,189.61
Law, Public Safety and Security			\$ 36,439.31					\$ 36,439.31
Multimedia Technologies			\$ 32,569.99					\$ 32,569.99
Nursing Services			\$ 101,583.11					\$ 101,583.11
Precision Manufacturing				\$ 6,747.64				\$ 6,747.64
Transportation Technologies			\$ 34,935.98			\$ 73,597.00		\$ 108,532.98
Welding Technologies			\$ 32,696.56		\$ 14,939.93	\$ 11,255.00		\$ 58,891.49
GRAND TOTAL	\$ 86,784.50	\$ 97,351.15	\$ 631,967.13	\$ 67,845.79	\$ 99,030.03	\$ 307,844.00	\$ 109,011.79	\$ 1,399,834.39

JTED Cost Reporting Worksheet

2011-2012 JTED- MIJTED-130802
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
01.0100	Agricultural Business Management - Agriscience	\$ 207,677.39
51.0800	Allied Health Services	\$ 65,664.86
41.0100	Bioscience	\$ 25,924.43
52.0200	Business Management and Administration Services	\$ 211,054.55
12.0500	Culinary Arts	\$ 114,396.99
15.1300	Drafting and Design Technologies	\$ 58,531.00
13.1200	Education and Training: Education Professions	\$ 58,439.16
15.1200	Information Technologies	\$ 48,813.56
52.1800	Marketing, Management and Entrepreneurship	\$ 25,582.35
10.0200	Multimedia Technologies	\$ 24,623.32
51.3900	Nursing Services	\$ 87,851.72
48.0500	Precision Manufacturing	\$ 62,600.86
47.0600	Transportation Technologies	\$ 282,859.16
48.0508	Welding Technologies	\$ 127,212.89
GRAND TOTAL		\$ 1,401,232.24

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	49%	48%	81%
ERE	18%	12%	26%
Purchased Services	30%	17%	31%
Supplies	1%	19%	96%
Property	2%	2%	54%
Other	1%	4%	25%

1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown.

<p>Member Districts</p> <p>Ash Fork USD</p> <p>Bagdad USD</p> <p>Chino Valley USD</p> <p>Humbolt USD</p> <p>Mayer USD</p> <p>Prescott USD</p> <p>Seligman USD</p>
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JTED Cost Reporting Worksheet

2011-2012 JTED- MIJTED-130802
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS								
	Ash Fork USD	Bagdad USD	Chino Valley USD	Humbolt USD	Mayer USD	MIJTED Central	Prescott USD	Seligman USD	Grand Total
Agricultural Business Management - Agriscience			\$ 60,579.93		\$ 20,217.10	\$ 98,494.00		\$ 28,386.36	\$ 207,677.39
Allied Health Services					\$ 8,550.86	\$ 57,114.00			\$ 65,664.86
Bioscience			\$ 18,156.43			\$ 7,768.00			\$ 25,924.43
Business Management and Administration Services		\$ 22,860.00		\$ 55,564.36	\$ 15,554.19	\$ 63,245.00	\$ 53,831.00		\$ 211,054.55
Culinary Arts			\$ 19,677.73	\$ 48,706.57	\$ 6,840.69	\$ 39,172.00			\$ 114,396.99
Drafting and Design Technologies			\$ 40,991.00			\$ 17,540.00			\$ 58,531.00
Education and Training: Education Professions				\$ 40,927.16		\$ 17,512.00			\$ 58,439.16
Information Technologies				\$ 9,601.56		\$ 14,628.00	\$ 24,584.00		\$ 48,813.56
Marketing, Management and Entrepreneurship				\$ 17,916.35		\$ 7,666.00			\$ 25,582.35
Multimedia Technologies				\$ 17,244.32		\$ 7,379.00			\$ 24,623.32
Nursing Services				\$ 50,461.72		\$ 37,390.00			\$ 87,851.72
Precision Manufacturing					\$ 8,550.86	\$ 54,050.00			\$ 62,600.86
Transportation Technologies					\$ 1,710.16	\$ 234,950.00	\$ 46,199.00		\$ 282,859.16
Welding Technologies	\$ 41,900.73	\$ 8,573.00			\$ 1,710.16	\$ 75,029.00			\$ 127,212.89
GRAND TOTAL	\$ 41,900.73	\$ 31,433.00	\$ 139,405.09	\$ 240,422.04	\$ 63,134.02	\$ 731,937.00	\$ 124,614.00	\$ 28,386.36	\$ 1,401,232.24

JTED Cost Reporting Worksheet

2011-2012 JTED- NATIVE- 090836
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
52.0300	Accounting and Related Services	\$ 34,498.94
01.0100	Agricultural Business Management - Agriscience	\$ 342,443.06
52.0200	Business Management and Administration Services	\$ 118,511.59
46.0400	Construction Technologies	\$ 270,450.50
12.0400	Cosmetology	\$ 24,806.29
12.0500	Culinary Arts	\$ 83,980.77
51.0900	Diagnostic and Intervention Technologies	\$ 30,235.78
15.1300	Drafting and Design Technologies	\$ 96,611.46
13.1210	Education and Training: Early Childhood Education	\$ 190,392.52
13.1200	Education and Training: Education Professions	\$ 37,909.33
15.0300	Electronic Technologies	\$ 24,806.29
15.0000	Engineering Sciences	\$ 921.78
10.0300	Graphic Communications	\$ 129,808.12
49.0200	Heavy Equipment Operations	\$ 142,913.87
43.0100	Law, Public Safety and Security	\$ 3,118.67
52.1800	Marketing, Management and Entrepreneurship	\$ 76,823.11
10.0200	Multimedia Technologies	\$ 16,437.93
51.3900	Nursing Services	\$ 166,750.09
47.0600	Transportation Technologies	\$ 86,397.45
48.0508	Welding Technologies	\$ 370,408.18
GRAND TOTAL		\$ 2,248,225.74

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	21%	33%	76%
ERE	22%	9%	24%
Purchased Services	7%	11%	100%
Supplies	5%	20%	100%
Property	9%	19%	100%
Other	1%	5%	15%

*1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown.

<p>Member Districts</p> <p>Chinle Unified SD</p> <p>Ganado Unified SD</p> <p>Kayenta Unified SD</p> <p>Pinon Unified SD</p> <p>Red Mesa Unified SD</p> <p>Sanders Unified SD</p> <p>Tuba City Unified SD</p> <p>Window Rock Unified SD</p>

JTED Cost Reporting Worksheet

2011-2012 JTED- NATIVE- 090836
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS								Grand Total
	Chinle USD	Ganado USD	Kayenta USD	Pinon USD	Red Mesa USD	Sanders USD	Tuba City USD	Window Rock USD	
Accounting and Related Services	\$ 13,055.94						\$ 21,443.00		\$ 34,498.94
Agricultural Business Management - Agriscience	\$ 35,251.05	\$ 59,652.77	\$ 82,581.99	\$ 44,414.25		\$ 120,543.00			\$ 342,443.06
Business Management and Administration Services	\$ 18,278.32	\$ 12,927.59	\$ 81,931.73				\$ 3,238.03	\$ 2,135.92	\$ 118,511.59
Construction Technologies	\$ 30,953.65	\$ 20,606.70	\$ 56,842.25	\$ 63,953.27	\$ 24,934.45	\$ 2,355.93	\$ 52,228.95	\$ 18,575.30	\$ 270,450.50
Cosmetology	\$ 24,806.29								\$ 24,806.29
Culinary Arts	\$ 47,018.83	\$ 26,903.70		\$ 2,808.68			\$ 1,678.00	\$ 5,571.56	\$ 83,980.77
Diagnostic and Intervention Technologies								\$ 30,235.78	\$ 30,235.78
Drafting and Design Technologies	\$ 33,945.45	\$ 20,418.83	\$ 26,821.53			\$ 2,800.65	\$ 7,463.39	\$ 5,161.61	\$ 96,611.46
Education and Training: Early Childhood Education			\$ 113,393.48				\$ 76,999.04		\$ 190,392.52
Education and Training: Education Professions	\$ 11,097.55		\$ 20,543.90				\$ 6,267.88		\$ 37,909.33
Electronic Technologies	\$ 24,806.29								\$ 24,806.29
Engineering Sciences								\$ 921.78	\$ 921.78
Graphic Communications		\$ 21,728.43	\$ 38,747.12	\$ 21,841.49	\$ 17,964.07	\$ 2,800.63	\$ 26,726.38		\$ 129,808.12
Heavy Equipment Operations	\$ 142,913.87								\$ 142,913.87
Law, Public Safety and Security								\$ 3,118.67	\$ 3,118.67
Marketing, Management and Entrepreneurship	\$ 16,972.73		\$ 39,579.88		\$ 5,444.73			\$ 14,825.77	\$ 76,823.11
Multimedia Technologies	\$ 16,319.93					\$ 118.00			\$ 16,437.93
Nursing Services	\$ 51,570.97	\$ 54,244.80	\$ 3,067.55	\$ 1,383.75			\$ 2,112.11	\$ 54,370.91	\$ 166,750.09
Transportation Technologies	\$ 26,764.68			\$ 34,717.52			\$ 13,305.00	\$ 11,610.25	\$ 86,397.45
Welding Technologies	\$ 92,227.84	\$ 63,844.47	\$ 68,393.28	\$ 2,636.25	\$ 3,988.17	\$ 2,245.00	\$ 66,622.90	\$ 70,450.27	\$ 370,408.18
GRAND TOTAL	\$ 585,983.40	\$ 280,327.29	\$ 531,902.71	\$ 171,755.21	\$ 52,331.42	\$ 130,863.21	\$ 278,084.68	\$ 216,977.82	\$ 2,248,225.74

JTED Cost Reporting Worksheet

2011-2012 JTED- NAVIT- 090835
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
52.0300	Accounting and Related Services	\$ 71,700.45
01.0100	Agricultural Business Management - Agriscience	\$ 165,310.19
51.0800	Allied Health Services	\$ 71,524.23
52.0200	Business Management and Administration Services	\$ 167,492.32
52.0400	Business Operations Support and Assistant Services	\$ 56,279.34
46.0400	Construction Technologies	\$ 232,202.80
12.0400	Cosmetology	\$ 595,718.31
12.0500	Culinary Arts	\$ 194,689.54
52.1900	Design and Merchandising	\$ 37,414.00
15.1300	Drafting and Design Technologies	\$ 100,836.24
13.1210	Education and Training: Early Childhood Education	\$ 115,849.27
13.1200	Education and Training: Education Professions	\$ 166,273.94
46.0300	Electrical and Power Transmission Technologies	\$ 20,809.21
15.0000	Engineering Sciences	\$ 30,917.73
52.0800	Financial Services	\$ 27,744.34
43.0200	Fire Service	\$ 324,583.48
10.0300	Graphic Communications	\$ 124,237.70
49.0200	Heavy Equipment Operations	\$ 187,136.58
47.0300	Heavy/Industrial Equipment Maintenance Technologies	\$ 44,487.08
15.1200	Information Technologies	\$ 108,137.98
43.0100	Law, Public Safety and Security	\$ 59,913.24
10.0200	Multimedia Technologies	\$ 112,411.12
51.3900	Nursing Services	\$ 361,546.58
50.0500	Performing Arts and Entertainment Industry	\$ 20,571.01
48.0500	Precision Manufacturing	\$ 16,111.13
47.0600	Transportation Technologies	\$ 327,629.89
48.0508	Welding Technologies	\$ 669,175.51
GRAND TOTAL		\$ 4,410,703.21

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	71%	67%	88%
ERE	23%	16%	37%
Purchased Serv	5%	8%	100%
Supplies	1%	2%	39%
Property	1%	6%	24%
Other	1%	0%	32%

1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown

<p>Member Districts Blue Ridge USD Herber-Overgaard USD Holbrook USD Joseph City USD Payson USD Round Valley USD Show Low USD Snowflake USD St. Johns USD Whiteriver USD Winslow USD</p>
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JTED Cost Reporting Worksheet

2011-2012 JTED- NAVIT- 090835
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS												Grand Total
	Blue Ridge USD	Heber-Overgaard USD	Holbrook USD	Joseph City USD	NAVIT Central	Payson USD	Round Valley USD	Show Low USD	Snowflake USD	St. Johns USD	White River USD	Winslow USD	
Accounting and Related Services	\$ 27,118.00							\$ 38,695.43	\$ 5,887.02				\$ 71,700.45
Agricultural Business Management - Agriscience						\$ 26,735.08	\$ 31,919.45		\$ 54,070.70			\$ 52,584.96	\$ 165,310.19
Allied Health Services	\$ 9,122.00						\$ 8,969.08					\$ 53,433.15	\$ 71,524.23
Business Management and Administration Services			\$ 6,822.00	\$ 4,952.69		\$ 30,737.93	\$ 23,088.51	\$ 43,628.88		\$ 40,159.00	\$ 18,103.31		\$ 167,492.32
Business Operations Support and Assistant Services	\$ 28,535.00											\$ 27,744.34	\$ 56,279.34
Construction Technologies	\$ 11,148.00	\$ 9,751.67	\$ 38,172.47	\$ 10,263.21		\$ 20,532.47	\$ 20,349.98	\$ 13,356.20	\$ 44,994.82		\$ 23,979.10	\$ 39,654.88	\$ 232,202.80
Cosmetology	\$ 9,123.00		\$ 6,822.00	\$ 16,780.19	\$ 543,118.91		\$ 8,969.08		\$ 5,887.00			\$ 5,018.13	\$ 595,718.31
Culinary Arts	\$ 18,029.00	\$ 13,639.55		\$ 4,515.39		\$ 60,016.77		\$ 65,697.83		\$ 32,791.00			\$ 194,689.54
Design and Merchandising	\$ 37,414.00												\$ 37,414.00
Drafting and Design Technologies	\$ 10,668.00		\$ 6,822.00					\$ 13,914.41				\$ 69,431.83	\$ 100,836.24
Education and Training: Early Childhood Education	\$ 9,123.00		\$ 6,822.00					\$ 13,758.69			\$ 86,145.58		\$ 115,849.27
Education and Training: Education Professions	\$ 9,123.00		\$ 6,822.00		\$ 124,444.09	\$ 25,884.85							\$ 166,273.94
Electrical and Power Transmission Technologies			\$ 6,822.00				\$ 8,969.08					\$ 5,018.13	\$ 20,809.21
Engineering Sciences						\$ 30,917.73							\$ 30,917.73
Financial Services												\$ 27,744.34	\$ 27,744.34
Fire Service	\$ 9,123.00		\$ 6,822.00		\$ 299,669.40		\$ 8,969.08						\$ 324,583.48
Graphic Communications	\$ 10,368.00	\$ 29,497.45						\$ 13,971.66	\$ 5,887.00	\$ 59,495.46		\$ 5,018.13	\$ 124,237.70
Heavy Equipment Operations	\$ 9,123.00		\$ 6,822.00		\$ 162,222.50		\$ 8,969.08						\$ 187,136.58
Heavy/Industrial Equipment Maintenance Technologies					\$ 44,487.08								\$ 44,487.08
Information Technologies	\$ 9,892.00				\$ 20,114.58	\$ 25,532.27			\$ 47,581.00			\$ 5,018.13	\$ 108,137.98
Law, Public Safety and Security		\$ 9,751.68										\$ 50,161.56	\$ 59,913.24
Multimedia Technologies	\$ 15,701.00		\$ 53,781.63					\$ 18,240.90	\$ 7,297.02		\$ 12,372.44	\$ 5,018.13	\$ 112,411.12
Nursing Services	\$ 9,123.00		\$ 6,822.00		\$ 325,727.37		\$ 8,969.08		\$ 5,887.00			\$ 5,018.13	\$ 361,546.58
Performing Arts and Entertainment Industry						\$ 20,571.01							\$ 20,571.01
Precision Manufacturing	\$ 11,093.00											\$ 5,018.13	\$ 16,111.13
Transportation Technologies	\$ 11,042.00		\$ 6,822.00	\$ 3,948.89	\$ 168,930.27	\$ 17,423.73	\$ 15,109.81	\$ 5,520.00		\$ 26,659.00	\$ 72,174.19		\$ 327,629.89
Welding Technologies	\$ 9,122.00		\$ 49,175.88	\$ 17,360.19	\$ 563,128.92		\$ 15,792.39			\$ 9,578.00		\$ 5,018.13	\$ 669,175.51
Grand Total	\$ 263,990.00	\$ 62,640.35	\$ 209,349.98	\$ 57,820.56	\$ 2,251,843.12	\$ 258,351.84	\$ 160,074.62	\$ 226,784.00	\$ 177,491.56	\$ 168,682.46	\$ 212,774.62	\$ 360,900.10	\$ 4,410,703.21

JTED Cost Reporting Worksheet

2011-2012 JTED- PIMAJTED- 100811
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
52.0300	Accounting and Related Services	\$ 29,325.67
01.0100	Agricultural Business Management - Agriscience	\$ 490,430.27
49.0100	Air Transportation	\$ 17,743.17
51.0800	Allied Health Services	\$ 839,565.26
41.0100	Bioscience	\$ 360,497.38
52.0200	Business Management and Administration Services	\$ 632,752.67
52.0400	Business Operations Support and Assistant Services	\$ 22,546.09
46.0400	Construction Technologies	\$ 283,907.35
12.0400	Cosmetology	\$ 637,647.27
12.0500	Culinary Arts	\$ 1,068,455.14
52.1900	Design and Merchandising	\$ 73,404.90
51.0900	Diagnostic and Intervention Technologies	\$ 4,950.00
15.1300	Drafting and Design Technologies	\$ 118,609.44
13.1210	Education and Training: Early Childhood Education	\$ 353,341.63
13.1200	Education and Training: Education Professions	\$ 38,746.49
15.0300	Electronic Technologies	\$ 32,742.44
15.0000	Engineering Sciences	\$ 251,418.79
52.0800	Financial Services	\$ 10,846.15
43.0200	Fire Service	\$ 135,582.93
10.0300	Graphic Communications	\$ 622,758.85
47.0200	Heating, Ventilation and Air Conditioning	\$ 9,969.78
52.0900	Hospitality Management	\$ 46,626.88
15.1200	Information Technologies	\$ 255,668.56
43.0100	Law, Public Safety and Security	\$ 171,596.16
52.1800	Marketing, Management and Entrepreneurship	\$ 167,490.42
51.1500	Mental and Social Health Services	\$ 18,912.76
10.0200	Multimedia Technologies	\$ 141,546.23
51.3900	Nursing Services	\$ 119,095.01
50.0500	Performing Arts and Entertainment Industry	\$ 126,202.75
48.0500	Precision Manufacturing	\$ 124,855.66
47.0600	Transportation Technologies	\$ 607,256.08
48.0508	Welding Technologies	\$ 118,561.38
GRAND TOTAL		\$ 7,933,053.57

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	85%	59%	93%
ERE	15%	12%	40%
Purchased Services	1%	4%	100%
Supplies	1%	16%	100%
Property	1%	16%	100%
Other	1%	3%	66%

1% = value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0% is shown.

Member Districts
Ajo Unified SD
Amphitheater Unified SD
Catalina Foothills SD
Flowing Wells Unified SD
Indian Oasis Unified SD
*Mammoth San Manuel SD
Marana Unified SD
Sahuarity Unified SD
Santa Cruz Unified SD
Sunnyside Unified SD
Tanque Verde Unified SD
Tucson Unified SD
Vail Unified SD

*New member- no JTED cost for SFY 2012

JTED Cost Reporting Worksheet

2011-2012 JTED- PIMAJTED- 100811
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS													Grand Total
	Ajo USD	Amphitheater USD	Catalina Foothills USD	Flowing Wells USD	Indian Oasis USD	Marana USD	Sahuarita USD	Santa Cruz Valley USD	Summerville USD	Tanque Verde USD	Tucson USD	Vail USD	Pima JTED Central	
Accounting and Related Services						\$ 1,392.55		\$ 14,052.75	\$ 4,717.25		\$ 9,163.12			\$ 29,325.67
Agricultural Business Management - Agriscience		\$ 145,113.24	\$ 77,601.99	\$ 52,055.57	\$ 16,514.38	\$ 3,968.26		\$ 35,854.57	\$ 6,750.63		\$ 77,445.56	\$ 5,869.65	\$ 69,256.42	\$ 490,430.27
Air Transportation											\$ 17,743.17			\$ 17,743.17
Allied Health Services		\$ 35,398.44				\$ 34,683.01	\$ 14,994.64	\$ 47,806.16	\$ 53,855.65	\$ 16,223.00	\$ 158,527.08		\$ 478,077.28	\$ 839,565.26
Bioscience		\$ 35,627.30	\$ 55,751.71	\$ 42,672.34		\$ 90,304.04			\$ 50,440.24		\$ 84,175.44	\$ 1,526.31		\$ 360,497.38
Business Management and Administration Services		\$ 81.33						\$ 19,894.05	\$ 3,668.98		\$ 425,573.16	\$ 16,246.44	\$ 167,288.71	\$ 632,752.67
Business Operations Support and Assistant Services							\$ 18,282.64		\$ 2,228.89		\$ 2,034.56			\$ 22,546.09
Construction Technologies		\$ 13,932.37				\$ 1,328.14	\$ 19,094.64				\$ 222,114.13	\$ 27,438.07		\$ 283,907.35
Cosmetology													\$ 637,647.27	\$ 637,647.27
Culinary Arts	\$ 576.22	\$ 44,234.04		\$ 2,224.04		\$ 5,051.37	\$ 15,362.64	\$ 40,342.67	\$ 14,426.05		\$ 412,125.73		\$ 534,112.38	\$ 1,068,455.14
Design and Merchandising		\$ 4,017.67		\$ 4,194.11		\$ 23,776.06			\$ 33,712.27		\$ 7,704.79			\$ 73,404.90
Diagnostic and Intervention Technologies	\$ 4,950.00													\$ 4,950.00
Drafting and Design Technologies		\$ 2,440.15				\$ 625.37				\$ 25,554.00	\$ 46,836.01	\$ 43,153.91		\$ 118,609.44
Education and Training: Early Childhood Education		\$ 12,577.66				\$ 30,566.86			\$ 476.01		\$ 131,239.35	\$ 59,957.36	\$ 118,524.39	\$ 353,341.63
Education and Training: Education Professions				\$ 4,095.00		\$ 2,561.01			\$ 2,892.03		\$ 754.35	\$ 28,444.10		\$ 38,746.49
Electronic Technologies											\$ 32,742.44			\$ 32,742.44
Engineering Sciences		\$ 36,642.39	\$ 56,245.95	\$ 20,241.45		\$ 17,881.70			\$ 42,628.89		\$ 58,176.42	\$ 19,601.99		\$ 251,418.79
Financial Services											\$ 10,846.15			\$ 10,846.15
Fire Service											\$ 38,765.55		\$ 96,817.38	\$ 135,582.93
Graphic Communications		\$ 36,216.18	\$ 73,604.31	\$ 4,535.77		\$ 65,793.00	\$ 16,915.26		\$ 26,970.02	\$ 25,555.00	\$ 199,582.23	\$ 81,871.26	\$ 91,715.82	\$ 622,758.85
Heating, Ventilation and Air Conditioning											\$ 9,969.78			\$ 9,969.78
Hospitality Management									\$ 2,948.07		\$ 43,678.81			\$ 46,626.88
Information Technologies		\$ 15,324.23		\$ 1,552.50		\$ 1,311.72			\$ 1,071.21	\$ 49,223.00	\$ 172,444.70	\$ 14,741.20		\$ 255,668.56
Law, Public Safety and Security	\$ 128.00					\$ 967.54	\$ 15,594.64	\$ 3,000.70	\$ 45,877.63		\$ 5,041.23	\$ 25,607.35	\$ 75,379.07	\$ 171,596.16
Marketing, Management and Entrepreneurship		\$ 9,900.04	\$ 28,109.38		\$ 30,734.05	\$ 18,007.50			\$ 21,674.74	\$ 20,746.00	\$ 37,479.09	\$ 839.62		\$ 167,490.42
Mental and Social Health Services											\$ 18,912.76			\$ 18,912.76
Multimedia Technologies													\$ 141,546.23	\$ 141,546.23
Nursing Services								\$ 26,284.35	\$ 38,138.77		\$ 10,737.09	\$ 43,934.80		\$ 119,095.01
Performing Arts and Entertainment Industry		\$ 30,962.76	\$ 18,995.59	\$ 3,346.00		\$ 1,150.62			\$ 53,647.68		\$ 3,328.21	\$ 14,771.89		\$ 126,202.75
Precision Manufacturing							\$ 41,381.49		\$ 5,318.63		\$ 22,331.37		\$ 55,824.17	\$ 124,855.66
Transportation Technologies		\$ 21,343.30		\$ 12,777.80		\$ 177,104.80	\$ 17,432.06	\$ 27,516.86	\$ 26,926.36		\$ 317,941.18	\$ 6,213.72		\$ 607,256.08
Welding Technologies						\$ 11,164.60			\$ 191.01		\$ 107,205.77			\$ 118,561.38
GRAND TOTAL	\$ 5,654.22	\$ 443,811.10	\$ 310,308.93	\$ 147,694.58	\$ 47,248.43	\$ 487,638.15	\$ 159,058.01	\$ 214,752.11	\$ 438,561.01	\$ 137,301.00	\$ 2,665,706.47	\$ 409,130.43	\$ 2,466,189.13	\$ 7,933,053.57

JTED Cost Reporting Worksheet

2011-2012 JTED- VACTE- 130801
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Course Cost
01.0100	Agricultural Business Management - Agriscience	\$ 205,428.05
51.0800	Allied Health Services	\$ 4,795.41
52.0400	Business Operations Support and Assistant Services	\$ 136,470.49
46.0400	Construction Technologies	\$ 77,202.83
12.0500	Culinary Arts	\$ 71,548.80
15.1300	Drafting and Design Technologies	\$ 12,256.21
13.1200	Education and Training: Education Professions	\$ 29,015.53
43.0200	Fire Service	\$ 57,137.91
10.0300	Graphic Communications	\$ 23,704.99
47.0200	Heating, Ventilation and Air Conditioning	\$ 59,994.99
15.1200	Information Technologies	\$ 27,725.14
10.0200	Multimedia Technologies	\$ 16,905.47
51.3900	Nursing Services	\$ 77,875.42
47.0600	Transportation Technologies	\$ 189,518.64
48.0508	Welding Technologies	\$ 89,790.10
Grand Total		\$ 1,079,370.00

Reported Aggregate Program Course Cost

Percent Expenditure by Course Category			
	MODE	MEDIAN	MAX
Salaries	77%	65%	77%
ERE	26%	16%	26%
Purchased Services	11%	5%	41%
Supplies	1%	15%	68%
Property	0%	13%	33%
Other	100%	100%	100%

* 1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown

<p>Member Districts Camp Verde Unified SD Mingus Union HSD Sedona-Oak Creek Unified SD</p>
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JTED Cost Reporting Worksheet

2011-2012 JTED- VACTE- 130801
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS				Grand Total
	Camp Verde Unified SD	Mingus Union HSD	Sedona-Oak Creek Unified SD	Vacte Central	
Agricultural Business Management - Agriscience	\$ 53,739.83	\$ 88,227.00		\$ 63,461.22	\$ 205,428.05
Allied Health Services		\$ 3,314.00		\$ 1,481.41	\$ 4,795.41
Business Operations Support and Assistant Services			\$ 94,311.77	\$ 42,158.72	\$ 136,470.49
Construction Technologies	\$ 53,353.19			\$ 23,849.64	\$ 77,202.83
Culinary Arts	\$ 49,445.81			\$ 22,102.99	\$ 71,548.80
Drafting and Design Technologies		\$ 8,470.00		\$ 3,786.21	\$ 12,256.21
Education and Training: Education Professions		\$ 20,052.00		\$ 8,963.53	\$ 29,015.53
Fire Service	\$ 39,486.76			\$ 17,651.15	\$ 57,137.91
Graphic Communications		\$ 16,382.00		\$ 7,322.99	\$ 23,704.99
Heating, Ventilation and Air Conditioning			\$ 41,461.21	\$ 18,533.78	\$ 59,994.99
Information Technologies	\$ 19,160.24			\$ 8,564.90	\$ 27,725.14
Multimedia Technologies		\$ 11,683.00		\$ 5,222.47	\$ 16,905.47
Nursing Services		\$ 53,818.00		\$ 24,057.42	\$ 77,875.42
Transportation Technologies	\$ 44,540.18	\$ 86,432.00		\$ 58,546.46	\$ 189,518.64
Welding Technologies		\$ 62,052.00		\$ 27,738.10	\$ 89,790.10
GRAND TOTAL	\$ 259,726.01	\$ 350,430.00	\$ 135,772.98	\$ 333,441.01	\$ 1,079,370.00

JTED Cost Reporting Worksheet

2011-2012 JTED- WAVE- 080850
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
52.0300	Accounting and Related Services	\$ 43,348.44
01.0100	Agricultural Business Management - Agriscience	\$ 149,549.36
51.0800	Allied Health Services	\$ 71,859.68
52.0200	Business Management and Administration Services	\$ 77,829.31
46.0400	Construction Technologies	\$ 41,020.16
12.0400	Cosmetology	\$ 19,818.69
12.0500	Culinary Arts	\$ 131,531.74
51.0600	Dental Assisting	\$ 39,945.61
52.1900	Design and Merchandising	\$ 15,243.00
51.0900	Diagnostic and Intervention Technologies	\$ 9,742.89
15.1300	Drafting and Design Technologies	\$ 55,279.85
13.1210	Education and Training: Early Childhood Education	\$ 48,976.39
13.1200	Education and Training: Education Professions	\$ 19,993.77
15.0000	Engineering Sciences	\$ 435.90
43.0200	Fire Service	\$ 29,669.61
10.0300	Graphic Communications	\$ 105,536.76
47.0200	Heating, Ventilation and Air Conditioning	\$ 39,638.36
52.0900	Hospitality Management	\$ 941.70
15.1200	Information Technologies	\$ 14,658.00
43.0100	Law, Public Safety and Security	\$ 12,415.78
52.1800	Marketing, Management and Entrepreneurship	\$ 55,132.14
10.0200	Multimedia Technologies	\$ 43,007.00
51.3900	Nursing Services	\$ 6,198.70
50.0500	Performing Arts and Entertainment Industry	\$ 11,472.59
47.0600	Transportation Technologies	\$ 63,622.33
48.0508	Welding Technologies	\$ 107,993.11
GRANT TOTAL		\$ 1,214,860.87

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	66%	16%	69%
ERE	1%	4%	27%
Purchased Services	1%	4%	100%
Supplies	1%	10%	44%
Property	3%	13%	91%
Other	86%	48%	86%

1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown.

<p>Member Districts Colorado River UHSD Lake Havasu USD Kingman USD Parker USD</p>

JTED Cost Reporting Worksheet

2011-2012 JTED- WAVE- 080850
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS				
	Colorado River UHSD	Kingman USD	Lake Havasu USD	Parker USD	Grand Total
Accounting and Related Services	\$ 43,348.44				\$ 43,348.44
Agricultural Business Management - Agriscience		\$ 37,454.77		\$ 112,094.59	\$ 149,549.36
Allied Health Services	\$ 1,048.54	\$ 6,737.14	\$ 64,074.00		\$ 71,859.68
Business Management and Administration Services		\$ 34,719.72	\$ 4,791.00	\$ 38,318.59	\$ 77,829.31
Construction Technologies	\$ 23,614.37	\$ 11,442.79	\$ 5,963.00		\$ 41,020.16
Cosmetology	\$ 19,818.69				\$ 19,818.69
Culinary Arts		\$ 131,531.74			\$ 131,531.74
Dental Assisting	\$ 39,945.61				\$ 39,945.61
Design and Merchandising			\$ 15,243.00		\$ 15,243.00
Diagnostic and Intervention Technologies	\$ 9,742.89				\$ 9,742.89
Drafting and Design Technologies		\$ 11,898.85	\$ 43,381.00		\$ 55,279.85
Education and Training: Early Childhood Education		\$ 40,922.39	\$ 8,054.00		\$ 48,976.39
Education and Training: Education Professions	\$ 19,993.77				\$ 19,993.77
Engineering Sciences		\$ 435.90			\$ 435.90
Fire Service	\$ 29,669.61				\$ 29,669.61
Graphic Communications		\$ 15,064.48	\$ 79,266.00	\$ 11,206.28	\$ 105,536.76
Heating, Ventilation and Air Conditioning	\$ 39,638.36				\$ 39,638.36
Hospitality Management				\$ 941.70	\$ 941.70
Information Technologies			\$ 14,658.00		\$ 14,658.00
Law, Public Safety and Security	\$ 12,415.78				\$ 12,415.78
Marketing, Management and Entrepreneurship	\$ 14,411.14	\$ 21,092.00	\$ 19,629.00		\$ 55,132.14
Multimedia Technologies			\$ 43,007.00		\$ 43,007.00
Nursing Services		\$ 6,198.70			\$ 6,198.70
Performing Arts and Entertainment Industry		\$ 4,048.59	\$ 7,424.00		\$ 11,472.59
Transportation Technologies		\$ 26,452.39	\$ 12,895.00	\$ 24,274.94	\$ 63,622.33
Welding Technologies	\$ 107,392.47	\$ 600.64			\$ 107,993.11
GRAND TOTAL	\$ 361,039.67	\$ 348,600.10	\$ 318,385.00	\$ 186,836.10	\$ 1,214,860.87

JTED Cost Reporting Worksheet

2011-2012 JTED- WestMEC- 070802
 Program Cost Aggregate Total

Number	Program Title	Total Aggregate Program Cost
52.0300	Accounting and Related Services	\$ 70,426.88
01.0100	Agricultural Business Management - Agriscience	\$ 146,716.66
51.0800	Allied Health Services	\$ 395,022.17
41.0100	Bioscience	\$ 93,557.00
52.0200	Business Management and Administration Services	\$ 336,304.61
52.0400	Business Operations Support and Assistant Services	\$ 17,144.00
46.0400	Construction Technologies	\$ 280,708.20
12.0400	Cosmetology	\$ 13,349.26
12.0500	Culinary Arts	\$ 1,156,395.48
52.1900	Design and Merchandising	\$ 81,664.29
51.0900	Diagnostic and Intervention Technologies	\$ 26,543.00
15.1300	Drafting and Design Technologies	\$ 187,689.39
13.1210	Education and Training: Early Childhood Education	\$ 326,200.50
13.1200	Education and Training: Education Professions	\$ 161,009.71
15.0000	Engineering Sciences	\$ 562,224.68
52.0800	Financial Services	\$ 25,954.00
43.0200	Fire Service	\$ 142,907.98
10.0300	Graphic Communications	\$ 598,981.20
52.0900	Hospitality Management	\$ 92.00
15.1200	Information Technologies	\$ 203,221.16
43.0100	Law, Public Safety and Security	\$ 451,351.10
52.1800	Marketing, Management and Entrepreneurship	\$ 850,515.71
10.0200	Multimedia Technologies	\$ 745,037.35
51.3900	Nursing Services	\$ 199,424.42
50.0500	Performing Arts and Entertainment Industry	\$ 38,460.95
48.0500	Precision Manufacturing	\$ 75,189.62
47.0600	Transportation Technologies	\$ 1,230,404.34
48.0508	Welding Technologies	\$ 112,414.97
GRAND TOTAL		\$ 8,528,910.63

Reported Aggregate Program Cost

Percent Expenditure by Program Category			
	MODE	MEDIAN	MAX
Salaries	2%	55%	100%
ERE	1%	13%	53%
Purchased Services	1%	10%	96%
Supplies	1%	5%	76%
Property	1%	3%	100%
Other	1%	6%	51%

*1%= value >0 to 1.49%

If there is more than one modal value, the larger percentage value is shown.

If there is no data available or if there are \$0 reported, 0 % is shown.

No modal value found from the data reported, 0% is shown

<p>Member Districts Agua Fria Union HSD Buckeye Union HSD Deer Valley Unified SD Dysart Unified SD Glendale Union HSD Paradise Valley Unified SD Peoria Unified SD Saddle Mountain Unified SD *Tolleson Union HSD Wickenburg Unified SD</p>
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*New member- no JTED cost for SFY 2012

JTED Cost Reporting Worksheet

2011-2012 JTED- WestMEC- 070802
 Program Cost Aggregate Total

Program Title	MEMBER DISTRICTS									
	Agua Fria USD	Buckeye Union HSD	Deer Valley USD	Dysart USD	Glendale Union HSD	Paradise Valley USD	Peoria USD	Saddle Mountain USD	Wickenburg USD	Grand Total
Accounting and Related Services			\$ 3,104.00		\$ 23,225.29		\$ 44,097.59			\$ 70,426.88
Agricultural Business Management - Agriscience	\$ 35,771.03	\$ 13,170.58				\$ 24,181.00	\$ 9,772.81	\$ 63,821.24		\$ 146,716.66
Air Transportation										
Allied Health Services	\$ 35,640.92	\$ 104,907.90	\$ 1,505.00	\$ 128,524.00			\$ 124,444.35			\$ 395,022.17
Bioscience			\$ 58,071.00			\$ 35,486.00				\$ 93,557.00
Business Management and Administration Services	\$ 33,732.30	\$ 100,147.92					\$ 169,787.32	\$ 17,898.60	\$ 14,738.47	\$ 336,304.61
Business Operations Support and Assistant Services			\$ 17,144.00							\$ 17,144.00
Construction Technologies	\$ 2,637.01				\$ 32,352.77	\$ 93,151.00	\$ 101,936.23	\$ 27,722.67	\$ 22,908.52	\$ 280,708.20
Cosmetology	\$ 13,349.26									\$ 13,349.26
Culinary Arts	\$ 27,249.44	\$ 60,186.84	\$ 57,437.00	\$ 57,321.00	\$ 231,961.86	\$ 172,571.00	\$ 525,789.86		\$ 23,878.48	\$ 1,156,395.48
Dental Assisting										
Design and Merchandising						\$ 74,018.00	\$ 7,646.29			\$ 81,664.29
Diagnostic and Intervention Technologies						\$ 26,543.00				\$ 26,543.00
Drafting and Design Technologies		\$ 15,929.95	\$ 31,930.00	\$ 62,899.00	\$ 76,930.44					\$ 187,689.39
Education and Training: Early Childhood Education	\$ 2,034.18	\$ 61,007.07	\$ 9,267.00	\$ 20,598.00	\$ 104,706.60	\$ 70,157.00	\$ 58,430.65			\$ 326,200.50
Education and Training: Education Professions	\$ 16,216.42	\$ 18,260.05	\$ 6,641.00	\$ 19,580.00	\$ 30,089.54	\$ 32,126.00	\$ 38,096.70			\$ 161,009.71
Electrical and Power Transmission Technologies										
Electrical Systems Installation and Maintenance Technologies										
Electronic Technologies										
Engineering Sciences	\$ 68,409.27		\$ 5,678.00	\$ 106,928.00	\$ 60,028.21	\$ 150,465.00	\$ 93,690.62		\$ 77,025.58	\$ 562,224.68
Financial Services				\$ 25,954.00						\$ 25,954.00
Fire Service				\$ 51,439.00	\$ 13,164.54		\$ 78,304.44			\$ 142,907.98
Graphic Communications	\$ 216,619.99		\$ 4,968.00	\$ 189,114.24	\$ 58,274.87	\$ 107,678.00		\$ 22,326.10		\$ 598,981.20
Heating, Ventilation and Air Conditioning										
Heavy Equipment Operations										
Heavy/Industrial Equipment Maintenance Technologies										
Hospitality Management			\$ 92.00							\$ 92.00
Information Technologies	\$ 23,061.38		\$ 33,160.00		\$ 22,417.83	\$ 59,547.00	\$ 65,034.95			\$ 203,221.16
Law, Public Safety and Security	\$ 2,647.60			\$ 11,866.00	\$ 18,340.79	\$ 51,545.00	\$ 366,951.71			\$ 451,351.10
Marketing, Management and Entrepreneurship	\$ 48,377.45		\$ 159,074.00	\$ 170,551.00	\$ 209,683.66	\$ 63,498.00	\$ 184,769.98		\$ 14,561.62	\$ 850,515.71
Mental and Social Health Services										
Multimedia Technologies	\$ 78,583.47		\$ 551,176.00		\$ 38,094.70	\$ 7,157.00	\$ 70,026.18			\$ 745,037.35
Nursing Services	\$ 50,019.67		\$ 1,112.00		\$ 137,131.11		\$ 11,161.64			\$ 199,424.42
Performing Arts and Entertainment Industry		\$ 15,072.51			\$ 5,535.34				\$ 17,853.10	\$ 38,460.95
Precision Manufacturing		\$ 27,008.62				\$ 48,181.00				\$ 75,189.62
Therapeutic Massage										
Transportation Technologies		\$ 18,800.57		\$ 29,334.00		\$ 115,334.00	\$ 1,066,935.77			\$ 1,230,404.34
Welding Technologies		\$ 44,066.14			\$ 16,151.93	\$ 52,196.90				\$ 112,414.97
GRAND TOTAL	\$ 654,349.39	\$ 478,558.15	\$ 940,359.00	\$ 874,108.24	\$ 1,078,089.48	\$ 1,183,834.90	\$ 3,016,877.09	\$ 131,768.61	\$ 170,965.77	\$ 8,528,910.63

