

## CTE ADMINISTRATORS MEETING September 15, 2021

#### Vision:

Develop Arizona's competitive workforce through the power of Career and Technical Education.

#### Mission:

Career and Technical Education will engage Arizona learners in relevant experiences leading to purposeful and economically viable careers.

#### **TEAMS NORMS**

#### **Video**

- ➤ We will be recording each session. Please have your camera off if you do not want to have your name or picture appear
- ➤ Feel free to TURN ON Closed Captions individually

#### Microphone

➤ Remain muted during the session

#### **Chat Box**

- ➤ Please post all comments and questions in the chat box
- >We will monitor and provide discussion opportunities at the end of the session





## Meeting Controls



### **Agenda**

**Welcome – Introductions** 

**ADE Updates:** 

**CTSOs** 

Updates: ACOVA, CTE Leads

**Program Services and Monitoring** 

**School Counselors and My Future AZ** 

Updates: SIROW-Project Change

**Allocations and Industry Credential Funding** 

Break

**Grants** 

**Accountability** 

Updates: ACTEAZ - Premier Program Series, AZ CTE Curriculum Consortium

**Technical Standards and Assessments Closing** 





## **Welcome and Updates**

Introductions:

Dr. Felica Durden, Associate Superintendent

Presidential scholar applications

We are moving this fall!

100 N 15th Avenue

Our mailing address will remain the same.

Certification will be on first floor

## **ADOA Building**



# Regions for for CTED 4<sup>th</sup> year Funding

**CTED** 

**CAVIAT** 

**CAVIT** 

**CTD** 

**CVIT** 

**EVIT** 

**GIFT** 

**MICTED** 

**NATIVE** 

**NAVIT** 

**Pima County JTED** 

**STEDY** 

**VACTE** 

**WAVE** 

**West-MEC** 

Workforce Region

Coconino & Yavapai

**Pinal County** 

Cochise, Graham & Greenlee

Apache, Gila, & Navajo

**Maricopa County** 

Cochise, Graham, & Greenlee

**Yavapai County** 

Apache, Gila, & Navajo

Apache, Gila, & Navajo

**Pima & Santa Cruz Counties** 

**Yuma County** 

Coconino & Yavapai

**Mohave & LaPaz Counties** 

**Maricopa County** 





# This year.... the great unknown

# Cathie's number: 602-364-2211

#### "DO ALL THE GOOD YOU CAN.

- BY ALL THE MEANS YOU CAN.
- IN ALL THE WAYS YOU CAN.
- IN ALL THE PLACES YOU CAN.
- AT ALL THE TIMES YOU CAN.
- TO ALL THE PEOPLE YOU CAN.
- AS LONG AS EVER YOU CAN."

## John Wesley

## **CTSOs**















**ARIZONA** 









**Dixie Harvey** 



**Daniel Kelly** 



# Calendar of Events

- In folders and on ADE Website
- Updated Calendar of Events





## New Advisor Training

Cost: Free



Saturday October 2<sup>nd</sup> 8:00am-3:30pm – Virtual

• Wednesday December 8th 8:00am-3:30pm - Virtual

Sign up:

https://fblaarizona.wufoo.com/forms/w9y13nl19006cq/





## Advanced Advisor Training (mini-sessions)

Cost: FREE

**Time:** 4:00pm-6:00pm

Dates: December 6th-10th

Monday – "Establishing a Firm Foundation for your CTSO"

Tuesday – "Growing your Program"

Wednesday – "Building a Solid Officer Team"

Thursday – "Successfully Implementing a Program of Work"

Friday – "Running an Effective Meeting" (parli pro)

Sign up: <a href="https://fblaarizona.wufoo.com/forms/wh8c7zp1eqclbu/">https://fblaarizona.wufoo.com/forms/wh8c7zp1eqclbu/</a>





# FAQ

## **DECA**:

WRLC – Providing an option not to stay

## **EDRISING:**

- Do not have to purchase curriculum
- Membership will be sent to State



## CTSOs New & Exciting





# ON DEMAND RESOURCES

**Coming Soon** 



Skating to the Future Middle Level Leadership Conference



## SAVE THE DATE: NOVEMBER 10<sup>TH</sup> 2021



## Questions, Concerns, Comments

#### **Julie Ellis**

**Email** 

Julie.Ellis@azed.gov

**Work** 

602-542-5350

<u>Cell</u>

520-465-3655

Thank You!





The professional association building community, advocacy, and leadership for Arizona Career Technical Education (CTE) Administrators

## **ACOVA Updates**

#### ACOVA is here for you!

- ACOVA Mini M&M September 15th, after the ADE CTE Directors Meeting. Mini M&M Registration
- ACOVA Fall Conference will be November 4th & 5th, 2021 in Prescott. Fall Conference Registration
- Tell ACOVA about yourself & your job responsibilities. Who are you survey?

## HOW TO BECOME A CTE TEACHER IN AZ

#### TIME FOR A CHANGE...

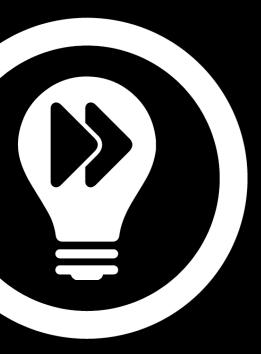
- WHAT IT MEANS TO BE A CTE TEACHER
- STEPS TO APPLY FOR A TEACHING CERTIFICATE
- JOB OPPORTUNITIES
- 10:00am 11:00 or 6:00pm 7:00pm Pick the date and register











## 2021



2022

**September 23, 2021** 

National/State CTE Legislative Priorities: (Virtual)

**November 18, 2021** 

February 17, 2022

**April 21, 2022** 

3 Ways to register



Bit.ly/Sept23thinktank

https://pdcircle.westmec.org/courses/think-tank

## **Program Services Updates**

**Cindy Gutierrez** 

**Director, CTE Program Services** 

**Career and Technical Education** 

**Arizona Department of Education** 

Office: 602-542-4365

Cindy.Gutierrez@azed.gov

## **Program Services Team**

#### **Program Specialists**

Tracie Carmel - Family and Consumer Sciences

Dixie Harvey - Education and Training/Educators Rising CTSO

Aden Ramirez - Health Science Technologies

Tracy Rexroat - Engineering ,Information Technologies,
and Manufacturing

Elena Sobampo - Business and Marketing Education;
Communication Media Technologies

Bruce Watkins - Agriculture and Welding
Jason Wojcik - Public Services Careers,
Transportation Technologies

Vacant - Construction Science Technologies

#### **Support Staff**

Janai Nesby - Program Project Specialist Gwen Lamb - Administrative Assistant

## Industry Recognized Credentials

#### Why?

- Perkins V Performance Measure SDLP: 33% must meet
   90% of SDLP
- CTED eligibility: State Statute 15-391 "...leads to certification or licensure"
- College and Career Readiness Index (School A-F):
   Industry recognized credential generates .5 up to 1.0/2.0
- AZ Industry Credentials Incentive Program: State Statute
   15-249.15, CTE programs in specific Industry Sectors

#### For lists and details:

https://www.azed.gov/cte/cte-industry-credentials

# Credential Updates and changes

All credential lists available on the CTE Industry Credentials webpage - https://www.azed.gov/cte/cte-industry-credentials With color-coded updates

Changes for 21-22:

**Green** = Newly Added to List

Yellow = Name/Status Updated

Red = Removed

# Credentials continue webpage view

#### Credential Applications:

- Industry-Based Certification Application for Inclusion on the Arizona State A-F School Rating List -Application opens March 1st and closes July 31st at 5 p.m. each year
- . Community College Certificate Application Fact Sheet Form

#### CTE Accountability:

- FY2022 Credential File Upload Template Updated August 2021 Excel
- FY2022 Credentials List with Credential Codes for File Upload Template PDF ~ Excel
- FY2022 Credentials Instructions PDF

#### Arizona Industry Credential Incentive Program:

- 6 Program Sector Industry Credentials Incentive SY 2021-2022 Word ~ PDF
- 6 Program Sector Industry Credentials Incentive SY 2020-2021
- CTE Programs for Arizona Industry Credential Incentive Program, 2019-2020 Graduates
- Arizona Industry Credential Incentive Program Business Rules
- . 2020-2021 CTE Credentials List AZ Industry Incentive Fund

#### CCRI A-F

- 2021-2022 CTE Credentials List A-F Approved ~ Updates
- 2020-2021 CTE Credentials List A-F Approved

#### **CTED and Perkins**

- 2021-2022 CTE Credentials List CTED ~ Updates
- 2021-2022 CTE Credentials List Community College ~ Updates
- 2020-2021 CTE Credentials List CTED
- 2020-2021 CTE Credentials List Community College

#### Contact:

#### **Cindy Gutierrez**

Director, CTE Program Services (602) 542-4365 Cindy.Gutierrez@azed.gov

#### Credentials continued

#### Please Note:

- Industry credentials change or are retired often
- CTE Directors/Program teachers know your credentials and the providers
- Fact Sheets with provider information on CTE Credential webpage
- Contact CTE Program Services if you know of any changes throughout the year

## Industry Credential Application Process

## Industry credential application process:

- opens on March 1<sup>st</sup> each year
- closes on May 31<sup>st</sup>
   Please note the change to the closing date

#### **Submissions:**

- Made by Districts with input from Industry partners
- Statewide or nationally recognized
- Vendor submissions will not be considered

## Applications available at

https://www.azed.gov/cte/cte-industry-credentials

# Local Occupational Programs https://www.azed.gov/cte/programs

#### LOP

- Reflects local need
- Not on the CTE
   Approved Program
   List
- Significantly different than any approved CTE Program
- Must apply for LOP
- Cannot just add it even if on the current list

Application information on CTE website
If submitting, due Dec.15<sup>th</sup> to CTED@azed.gov

#### ▶ M-Z

#### ▼ Local Occupational Programs

- Local Occupational Program electronic application <u>Proposed LOP Request Form</u> Deadline to submit on or before December 15th by 5 pm each year
- Local Occupational Programs List 2022
- Local Occupational Program Coherent Sequence 2022 PDF
- Local Occupational Programs List 2021
- Local Occupational Program Coherent Sequence 2021 PDF
- Local Occupational Programs List 2020
- Local Occupational Program Coherent Sequence 2020 Excel ~ PDF

# CTE Program Monitoring Quality and Compliance, Accountability

#### Why?

#### AZ State Perkins V plan

...secondary subrecipient programs will be monitored annually on a five-year rotating basis. Programs that do not meet compliance for a specific indicator will have thirty days to submit documentation of compliance for that indicator.

## ARS 15-391 V. CTED legislation

...every five years CTE division of ADE shall review CTED and district programs to ensure compliance, quality and eligibility.

# CTE Program Monitoring Continued

### **ADE CTE - year two of rotation**

- SY 21-22 = 37 schools, 4 CTEDs
- Planning for on-site visits per district approvals
   New this year:
- District level forms to reduce redundancy
- Separate Program level forms
- CTED Community College forms
- CTSO state advisors will verify CTSO indicators
- Schedule, Guides and Information on webpage https://www.azed.gov/cte/programs

#### Note:

CTE Grants Specialists reviewing Perkins Inventory during Program Monitoring

# CTE Program Monitoring Continued

#### Districts Scheduled for SY 22-23

- Colorado City USD Perkins only
- Phoenix Union HSD Perkins only
- MICTED and all member districts
- STEDY and all member districts
- WAVE and all member districts

#### SY 22-23 District notifications:

- Announced today, Sept 15, 2021
- Email notification in November TBD
- Required Training in February TBD
- District only meetings in April-May TBD

## Questions









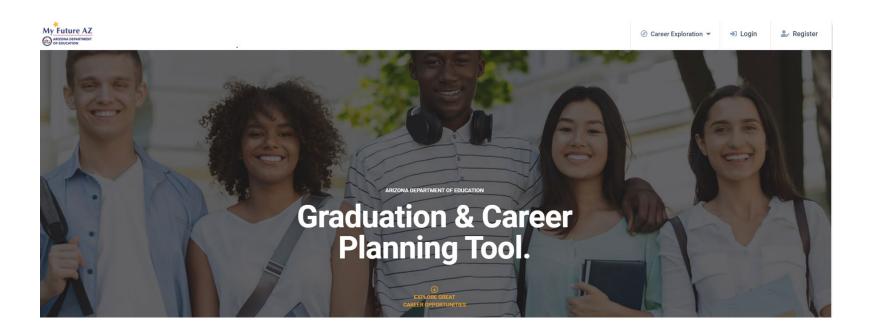




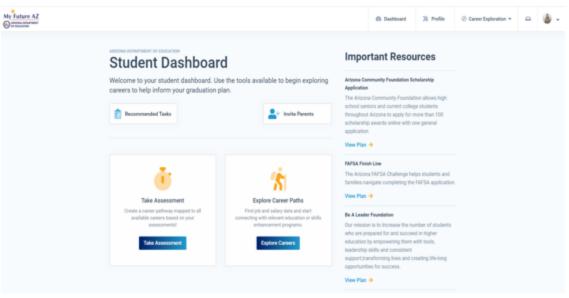


- FREE
- Created for us not a "canned" platform
- Open to all students focus on middle/high school
- Open system registration is not required to explore – registration is required to save information
- Easy to create accounts easy to reset passwords
- Students never lose access to their account even if they move schools
- Easy to document ECAP attributes
- Schools can customize certain aspects of the platform to individualize for their school
- Easy to share with parents

# My Future AZ -www.myfutureaz.pipelineaz.com

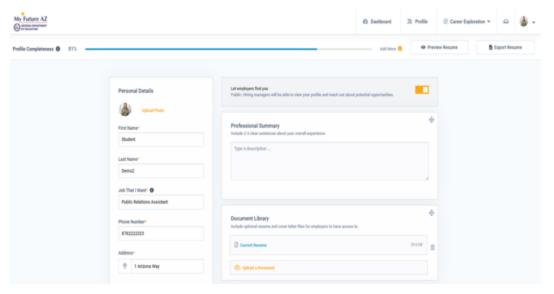


### Student Dashboard



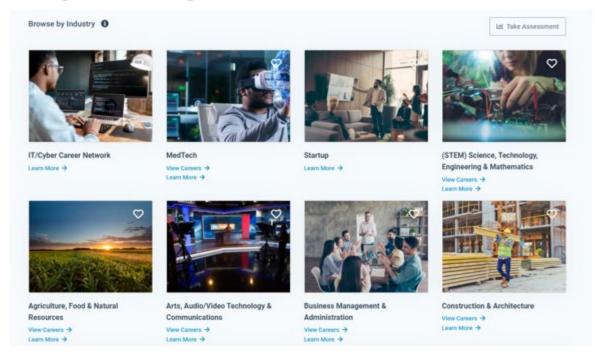
- · Take an Assessment
- · Explore Career Paths
- · See Favorite Careers
- · See Favorite Industries
- Explore Education Paths
- · Connect to Resources
- Recommended Tasks
- · Invite Parents

### Student Profile – ECAP Portfolio

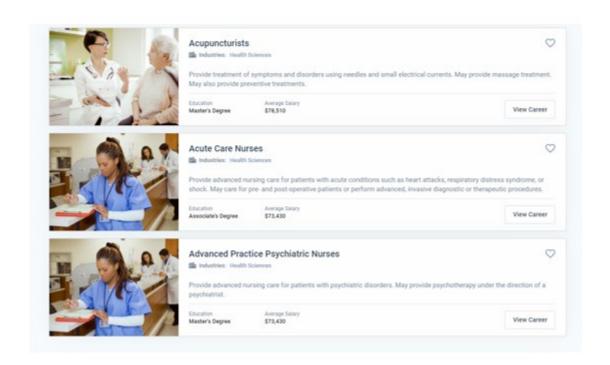


- · Personal Details
- · Professional Summary
- · Document Library
- · Work Experience
- · Education Experience
- · Volunteer Experience
- Awards
- Skills
- Certifications & Licenses
- More to come......

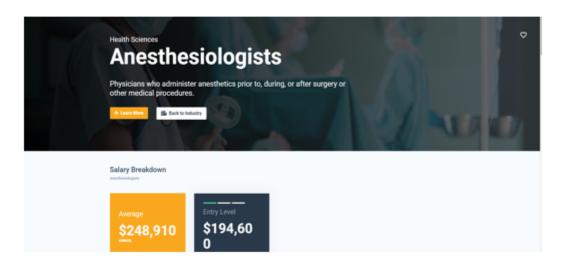
# **Browse by Industry**



# **Browse by Industry – View Careers**



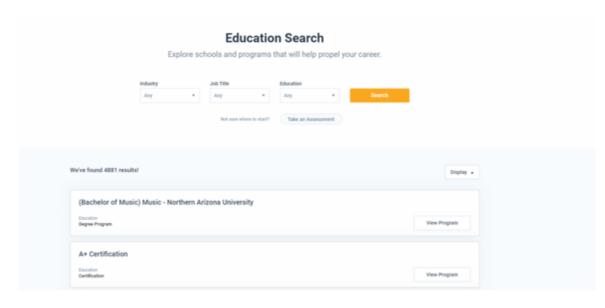
# Browse by Industry – View Career in Detail



Easy to navigate to learn:

- Salary
- · Job Outlook
- Sample Career Roadmap
- Top Expected Tasks
- Knowledge, Skills & Abilities
- Related Careers & Companies

### **Education Search**



- Find AZ schools based upon industry, job title, and education length
- Links directly to that specific program to learn more
- Out of state school search in resources on Dashboard

# My Future AZ – Timeline – Phased in Approach

#### Register & Explore

- Students can register
- · Interest Inventory
- Favorite top careers

#### Admin Access & Custom Dashboards

- Customized dashboards for all users
- Educators have increased functionality within the system

#### **Build Your Plan**

 Students have full access to complete ECAP activities in their student portfolios

### **Demo Accounts**

Demo accounts are available for you to view what a student and educator account will look like once registered. Use the following login information to access these demo accounts:

#### Educator/Case Manager

Email Address: MFAZCM@futuresinc.com

Password: Password1!

#### Student

Email Address: <u>student@futuresinc.com</u>

Password: Password1!

## Middle School

While My Future AZ is available for anyone to access and explore at this time, the Center for the Future (CFA) of Arizona and the Arizona Business & Education Coalition (ABEC), who financially supported the development of the middle school platform, are leading the effort to onboard their network of middle schools onto the platform.

If your school would like to be a part of the CFA/ABEC collaborative and receive support for onboarding and implementation, please contact either:

Deb Raeder, Vice President, Arizona Business and Education Coalition

debra@azbec.org, 623-512-2124

Cindy Erwin, Director, College & Career Pathways Center for the Future of Arizona

<u>cindy.erwin@arizonafuture.org</u>, 480-280-8533

# **Onboarding & Training**

If you are interested in using My Future AZ as your ECAP tool and would like to have access to student accounts and individualize certain aspects of the platform, please fill out the

Interest Form for Onboarding

#### **Amanda Nolasco**

School Counselor Specialist
Arizona Department of Education
<a href="mailto:amanda.nolasco@azed.gov">amanda.nolasco@azed.gov</a>

www.azed.gov/cte/ecap

602.542.5353

Sign Up for Counseling Newsletter



- 1. Recruitment + Retention of Nontraditional students
- 2. Gender, CTE, and
  Nontraditional Career
  Success
- 3. Stop Sexual Harassment
- 4. Stop Cyberbullying + Promote Positive Digital Citizenship

# Project CHANGE

- Increase gender nontraditional
   CTE enrollment
- Promote safe and healthy schools

tylerlepeau@email.arizona.edu timwernette@msn.com



# **Project CHANGE**

We are happy to present in person again! Along with in-person presentations, we are also offering Project CHANGE presentations in these online and/or video formats:

- Live online sessions on Zoom or Google Meet (works best with groups of about 10-40 participants).
- Pre-recorded video
   presentations along with
   optional interactive
   Google slide activity.

- Presentations and workshops are provided at no cost.
- Educator presentations provide professional development hours.
- Presentations run
   approximately an hour to
   accommodate a typical
   class period (shorter for
   pre-recorded video).



# Funding Update: Perkins, Priority, Incentive Funding

Bobby Neves
Fiscal, Grants & Accountability Director
Career and Technical Education
Arizona Department of Education
Phone: 602-542-5137

Bobby.Neves@azed.gov

### FY 21-22 Perkins Funds

- \$32,139,650 to Arizona
- \$22,470,187 Secondary Districts
- \$4,932,480 Community College Districts
- \$871,781 Reserved
- \$80,000 Nontraditional
- \$110,000 State Institutions
- \$1,783,218 State Administration
- \$1,606,982 Basic Administration

# **How are Secondary Funds Allocated**

- District allocations based on census data:
  - -30% of funds based on the total number of 5-17 year olds by county
  - -70% of formula funds based on the number of 5-17 year olds in families below the poverty line by county
- Perkins funds are NOT affected by school enrollment, CTE enrollment or number of CTE programs

### Where Does Census Data Come From?

### US Census Bureau (SAIPE)

- New Report Published every December
- ➤ This allocation we will use the report published in December 2020 which accounted for 2019 census data

# **FY22 CTE State Priority**

- \$9,000,942 Total for Arizona
- \$100,000 Reserved

#### Allocation Based on Enrollment and Placement

Number of 11<sup>th</sup> and 12<sup>th</sup> grade students enrolled in CTE approved classes (40<sup>th</sup> and 100<sup>th</sup> day enrollment)

- ✓ 75% of funding comes from this calculation
- ✓ 2020-2021 \$57.26/student
- ✓ 2021-2022 \$60.32/student

Related placements-if student placed in work, military or school which was related to CTE program.

- ✓ 25% of funding comes from related placements
- ✓ 2020-2021 \$134.24/placement
- √ 2021-2022 \$153.75/placement

# **CTE Arizona Industry Credentials Incentive Program**

#### Final Narrative

- ➤ A final narrative will need to be completed and uploaded to the related documents section in the funding application
- This will allow ADE to have better insight on what was expended using these funds

### Carryover

➤In order to carryover funds, you must indicate this on the "Completion Report Adjustments" page when you do your Completion Report

# Continued...

- FY22 applications are open
  - ➤ Please go in and submit your applications ASAP. You can make revisions later if needed
  - ➤ Remember to only spend funds on the qualified programs

#### Arizona Industry Credential Incentive Fund Allowable and Unallowable Expenditures

#### Allowable Expenditures by Activity

- For instructional and professional development costs for a career & technical education teacher to become a certifying professional for an approved certificate, credential, or license:
  - Registration or cost of training
  - Travel
  - Substitute teachers to cover teachers attending instructional and professional development to become certified.
- To offset the student costs of acquiring the actual certification, credential, or license including:
  - Testing vouchers from industry recognized external vendors
  - Reimbursement to student for credential cost
  - Costs of transportation to testing sites such as vans, buses, and bus passes.
- For developmental costs related to creating, expanding, or improving an approved site of a certificate, credential or license for a career & technical program or course.

- Remodel of a space (i.e., rewiring, plumbing, etc.)
- For instructional supplies required for acquiring a certification, credential, or license:
  - Equipment
  - Hardware
  - Software
  - Supplies
  - Textbooks required to obtain the credential
- For career exploration (any grade) and awareness activities for parents, students, and the community for the approved career & technical education sectors:
  - · Printed materials
  - Space rental
  - Supplies
  - Media specific to the approved sectors

Note: If a program moves off the CTE Credentials List, funds may be expended on it for 1 year following the removal.

Example: Film and TV was eligible in 2020-2021, but is not eligible 2021-2022. Funds may be used for Film and TV during the 2021-2022 school year.

#### Unallowable Expenditures

- 1. Advisory councils
- 2. Alcoholic beverages
- Alumni/ae activities
- 4. Benefits
- 5. Commencement and convocation costs
- Consumable supplies to be made into products to be sold or to be used personally by students, teachers, or other persons
- 7. Contingency or "petty cash" funds
- 8. Contributions and donations
- Copyrights/patents
- 10. CPR
- 11. CTSO activities
- 12. Dues/memberships to professional organizations
- 13. Entertainment
- 14. Equipment and supplies for building maintenance
- Equipment or supplies not used directly leading to eligible career technical education industry credentials for students.
- Equipment solely for use by the, administrator or other staff members
- 17. Expenditures for non-approved CTE programs
- 18. First Aid
- 19. Fines and penalties
- 20. Fingerprinting
- 21. Food/drink

- 22. Gifts
- 23. Fundraising
- 24. Door prizes, etc.
- 25. Goods or services for personal use
- 26. Insurance/Self-Insurance
- 27. Interest and other financial costs
- Items retained by student (supplies, clothing/uniform, tools, PDAs, calculators)
- 29. Lobbying and other political activities
- 30. Monetary awards
- Non-instructional furniture (bookcases, drawers, file cabinets, lateral files)
- 32. Promotional materials (t-shirts, pens, cups, key chains, book bags)
- Purchase or lease of vehicles including automobiles, trucks, buses, utility vehicles, airplanes, boats, tractors, and golf carts
- 34. Remedial courses (courses designed to provide instruction in reading, writing, and mathematics for students who have not acquired the basic academic skills necessary to succeed in general or in career and technical education courses)
- 35. Salaries or Stipends
- 36. Scholarships paid directly to students
- Standard classroom furniture, files, and equipment not specific and unique to the instructional program (tables, chairs, desks)
- 38. Textbooks

#### **Basic Cost Principles**

- Reasonable and necessary (meaning that, for example, sound business practices were followed, and purchases were comparable to market prices);
  - A cost may be reasonable if the nature of the goods or services acquired, and the amount involved reflect the action that a prudent person would have taken under the circumstances prevailing at the time the decision to incur the cost was made.
- Allocable to the State award (meaning that the state program, in this case the Arizona Industry Credentials Incentive Program, derived a benefit in proportion to the funds charged to the program.
- 3. Legal under state and local law;
- 4. Properly documented (and accounted for on a consistent basis with generally accepted accounting principles);
- 5. Consistent with the provisions of the grant program (Arizona Revised Statutes 15-249.15. Arizona industry credentials incentive program); and
- 6. Not used for cost-sharing or matching any other grant agreement.

# Managing Your Federal Perkins and State Priority Grants

**September 15, 2021** 





# **Grant Specialist Team**

Shelley Baudean – Grants Program Specialist

Audrey Dieken – Grants Program Specialist

Don Dolin – Grants Program Specialist

Mark McManus – Grants Program Specialist

John Jones – OCR Special Populations Program Specialist

Mary Medina – CTE Grants Supervisor

# **CTE Grant Application Important Dates**

### FY2021

CTE Federal Perkins Grant Final Narratives due: September 15, 2021

CTE State Priority Grant Completion Report due September 30, 2021

CTE Federal Perkins Grant Completion Report due: <u>December 30, 2021</u>

### FY2022

CTE Federal Perkins and State Priority submission due: July 1, 2021

Funding year for CTE Federal Perkins Grant: <u>July 1, 2021 – September 30, 2022</u>

Funding year for CTE State Priority Grant:

July 1, 2021 – June 30, 2022

# FY2022 Grant Successes

- 99% of FY2022 CTE Federal Perkins applications approved
- 99% of FY2022 CTE State Priority applications approved

# **FY2021 Reimbursement Requests**

**State Priority** 

96%

Paid out as of 7/1/2021

**Perkins** 

**75%** 

Paid out as of 9/8/2021

# **Managing Your FY2022 Grants**

- Ensure you have grant user access role
- Purchase capital and supplies at beginning of school year to ensure timely delivery
- Work with your Business Manager to ensure regular submission of reimbursement requests
- Read all History Log communications
- Focus on FY2022 CLNA & goals/targets
- Adhere to grant specific deadlines
- Provide narrative details for revisions (below)
  - \*\*\*\*Spend your allocated funding\*\*\*\*

Object Code	Function Code	Project Time (FTE)	Quantity	Salary, Rental,or Unit Cost	Line Item Total
6600 - Supplies	1000 - Instruction	<b>v</b>	1	\$6,000.00	\$6,000.00

Narrative Description

Software for student learning Networking CCCD - 300 AG CASE - 300 AG ICEV - 1500 Business - 500

# **Capital Outlay**

- All Capital should be specialized equipment for CTE programs
  - Use CTE program equipment list which is located on the CTE website: <a href="https://www.azed.gov/cte/programs">https://www.azed.gov/cte/programs</a>
  - If item is not on the equipment list, please contact your assigned GPS to seek approval
- Must be part of the inventory control system
  - Tagged, on inventory list, etc...
  - Adhere to EDGAR §200.313 requirements

# **CTE Programs and Standards**

CTE Program Lists and Information:

- ▶ Elements of an Approved CTE Program
- **▶** Approved CTE Program Lists

Below is an alphabetical list of all programs that includes program descriptions, industry credentials, coherent sequences, technical standards, blueprints, equipment lists, and more.



- Accounting
- · Agribusiness Systems (Agriscience)



# Accounting - 52.0301.00

- Program Description/Industry Credentials/Coherent Sequence/Teacher Certification Word ~ PDF
- Technical Standards 2014 Word ~ PDF
  - o Blueprint for Instruction and Assessment
  - Instructional Framework Not Available
  - Instructional Terminology Not Available
- Equipment List Excel ~ PDF
- Professional Skills Standards and Rubrics
- ADE CTE Program Specialist Contact Information
- CTE Professional Development Events Calendar All Programs
- · CTE Educator Information

# **Things That May Affect Your Grants**

- Ordering equipment / supplies not listed in grant
- Procrastination in purchasing = irregularity in reimbursement request submissions
- Limited / vague information in budget narratives when submitting grant revisions
- Global Holds prevent your grants from being approved.
   Resolve Global Holds with GME as soon as possible.
  - \*\*Contact GPS for review prior to submission if you are unsure about any of your revisions

# **Thinking Ahead**

- Schedule meetings with CLNA Leadership Team in September/October 2021 and in February 2022 to discuss progress relating to this year's CLNA goals / targets as this is year 1 of the biennial cycle
- Based on CLNA Leadership Team meeting discussions, begin planning FY2023 Perkins Grant Measurable Objectives to be included in the FY2023 Perkins grant application due May 2022
- Start planning your Perkins and State Priority budgets for the FY2023 applications due May 2022

# **Visual of Timelines**

Month → Grant Year:	Sept 2021	Oct 2021	Nov 2021	Dec 2021	Jan 2022	Feb 2022	Mar 2022	Apr 2022	May 2022
	FY2021 Perkins ends & FN due FY2021 Priority CR due	Order items  Revise budgets (alloc.)  Plan FY2022  CLNA review team meeting		FY 2021 Perkins CR due					FY2022 State Priority ends next month (June)
					Revise FY2022 budgets (alloc.)	Plan CLNA review team meeting for FY2023 Grants	Plan new MO's for FY2023 Perkins grant	Work on new FY2023 Perkins & State Priority grants	FY2023 Perkins & State Priority Grants DUE in GME

\*ENI-Final Narrativas \*CR-Completion Penert \*MO-Messurable Objectives

# Reminder

# Loan of equipment due to COVID-19

Please be sure to have documentation outlining the process / procedures as well as the timeframes for return of the equipment to LEA. Follow through on timeframes for return of equipment.

Update inventory list when equipment is returned.

### **Contact Information**

#### **Shelley Baudean**

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### **Email Address Change:**

Mary Medina mary.m.medina@azed.gov



# CTE Administrators Meeting Accountability & CTE Data Portal

**September 15, 2021** 

#### FY 2022 Calendar

#### CTE data reporting calendar is available online at:

https://www.azed.gov/cte/cte-data-portalinformation

Look for "FY 2022 CTE Data Portal Important Dates and Deadlines".

# FY/SY 2021-2022 CTE Data Portal Dates/Deadlines

#### https://www.azed.gov/cte/cte-data-portal-information

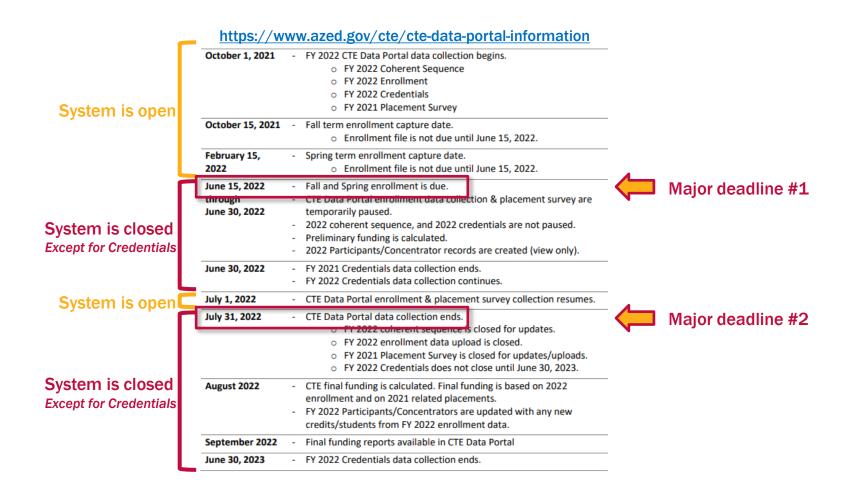
October 1, 2021	<ul> <li>FY 2022 CTE Data Portal data collection begins.</li> <li>FY 2022 Coherent Sequence</li> <li>FY 2022 Enrollment</li> <li>FY 2022 Credentials</li> <li>FY 2021 Placement Survey</li> </ul>
October 15, 2021	<ul> <li>Fall term enrollment capture date.</li> <li>Enrollment file is not due until June 15, 2022.</li> </ul>
February 15, 2022	<ul> <li>Spring term enrollment capture date.</li> <li>Enrollment file is not due until June 15, 2022.</li> </ul>
June 15, 2022 through June 30, 2022	<ul> <li>Fall and Spring enrollment is due.</li> <li>CTE Data Portal enrollment data collection &amp; placement survey are temporarily paused.</li> <li>2022 coherent sequence, and 2022 credentials are not paused.</li> <li>Preliminary funding is calculated.</li> <li>2022 Participants/Concentrator records are created (view only).</li> </ul>
June 30, 2022	<ul> <li>FY 2021 Credentials data collection ends.</li> <li>FY 2022 Credentials data collection continues.</li> </ul>
July 1, 2022	- CTE Data Portal enrollment & placement survey collection resumes
July 31, 2022	CTE Data Portal data collection ends.  FY 2022 coherent sequence is closed for updates.  FY 2022 enrollment data upload is closed.  FY 2021 Placement Survey is closed for updates/uploads.  FY 2022 Credentials does not close until June 30, 2023.
August 2022	<ul> <li>CTE final funding is calculated. Final funding is based on 2022 enrollment and on 2021 related placements.</li> <li>FY 2022 Participants/Concentrators are updated with any new credits/students from FY 2022 enrollment data.</li> </ul>
	- Final funding reports available in CTE Data Portal
September 2022	- Final funding reports available in CTE Data Fortal

# FY/SY 2021-2022 CTE Data Portal Dates/Deadlines

	https://w	ww.azed.gov/cte/cte-data-portal-information
System is open	October 1, 2021  October 15, 2021  February 15,	- FY 2022 CTE Data Portal data collection begins.  OFY 2022 Coherent Sequence OFY 2022 Enrollment OFY 2022 Credentials OFY 2021 Placement Survey  - Fall term enrollment capture date. OEnrollment file is not due until June 15, 2022.
System is closed Except for Credentials	June 15, 2022 through June 30, 2022 June 30, 2022	Enrollment file is not due until June 15, 2022.      Fall and Spring enrollment is due.      CTE Data Portal enrollment data collection & placement survey are temporarily paused.      2022 coherent sequence, and 2022 credentials are not paused.      Preliminary funding is calculated.      2022 Participants/Concentrator records are created (view only).      FY 2021 Credentials data collection ends.      FY 2022 Credentials data collection continues.
System is open	July 1, 2022 July 31, 2022	- CTE Data Portal enrollment & placement survey collection resumes.  - CTE Data Portal data collection ends.  - FY 2022 coherent sequence is closed for updates.  - FY 2022 enrollment data upload is closed.  - FY 2021 Placement Survey is closed for updates/uploads.  - FY 2022 Credentials does not close until June 30, 2023.
System is closed Except for Credentials	August 2022	<ul> <li>CTE final funding is calculated. Final funding is based on 2022 enrollment and on 2021 related placements.</li> <li>FY 2022 Participants/Concentrators are updated with any new credits/students from FY 2022 enrollment data.</li> </ul>
	September 2022 June 30, 2023	- Final funding reports available in CTE Data Portal - FY 2022 Credentials data collection ends.
L	Julie 30, 2023	- F1 2022 Credentials data collection ellus.



# FY/SY 2021-2022 CTE Data Portal Dates/Deadlines



## FY 2022 Data Collection Starting October 1

# CTE data reporting for school year 2021-2022 will begin October 1, 2021.

- Update coherent sequence
- Upload student-level course enrollment
- Record student credentials for 2021 or 2022
- Record placement surveys for 2021 graduates

## FY 2022 Data Collection Starting October 1

Enrollment data is reported by term for students enrolled on:

- Fall term: 10/15/2021

- Spring term: 2/15/2022

This replaces 40<sup>th</sup> and 100<sup>th</sup> day enrollment reporting.

All data is manually entered or uploaded into CTE Data Portal. The system will <u>not</u> interface with AzEDS to bring in any data.

CTE Data Portal will still verify enrollment through AzEDS.

## **FY 2022 Upload Templates**

All CTE Data Portal Upload Templates have been updated and are now available on the CTE website.

Enrollment templates (https://www.azed.gov/cte/cte-enrollment)

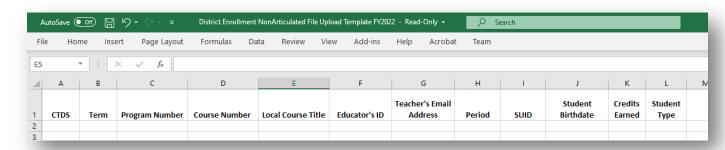
- District Nonarticulated
- District Articulated
- District Postsecondary Articulated
- **NEW! CTED Enrollment Template\***

Placement Survey template (https://www.azed.gov/cte/cte-placement)

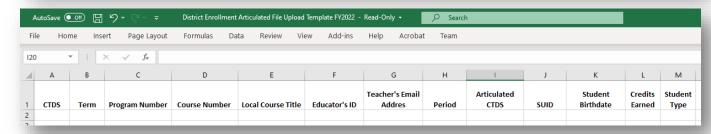
<sup>\*</sup> This template is for CTED central campuses. CTE Districts/Charters will not use this template.

## FY 2022 Upload Templates - Districts

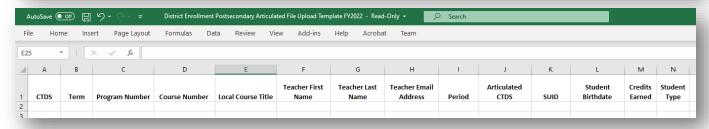
#### **Nonarticulated**



#### **Articulated**



#### Postsecondary Articulated



## FY 2022 Upload Templates - Districts

### **Changes to 2022 Enrollment Templates:**

- 1. Columns for "Minutes per Week" and "Number of Weeks" have been removed.
- 2. New column for "Student Type" has been added.

### "Student Type" is a codified value:

- 1 CTE participating public school/charter school
- 2 Homeschool (non-ESA recipient)
- 3 Non-CTE participating public school/charter school
- 4 Private school/private charter school
- Used for data reporting & comparison.
- Will allow you to report students that attend CTE at your school, but are homeschooled, etc.

### CTED central campuses will report:

- A coherent sequence
- Fall and Spring term enrollment data
- Credential attainment data
- Starting with 2022 graduates, placement survey data

#### Districts will continue to report:

- A coherent sequence, including CTED articulated courses
- Fall and Spring term enrollment data, including CTED articulated enrollment
- Credential attainment data\*
- Placement survey data\*

## CTED central campuses will now report student-level data.

Districts will continue to report articulated enrollment where the course is taught at a CTED central campus. This will result in "duplicated" data – reported by both the student's district & by the CTED central campus.

CTE Data Portal will identify "matching" records - matched on:

- CTE Program and Course Numbers
- Course Location ( "Articulated CTDS in district file must match CTED central campus CTDS)
- Term
- Class Period
- Local Course Title
- Teacher (Educator ID number if provided, teacher name if EIN is not provided).

"CTED/School Enrollment Discrepancy Report" will show "mismatched" or missing enrollment records.

"Student Type" indicator is used in comparing CTED-reported enrollment to District-reported articulated enrollment.

For each district articulated enrollment record where course location is a CTED central campus, system will expect a matching record at the CTED (uploaded by CTED).

For each CTED enrollment record (uploaded by CTED) where student type is "CTE Participating School", system will expect a matching articulated record at the student's school.

#### Handout

CTE Data Reporting Roles &
Responsibilities – Districts and CTED
document is available on CTE website.

Details (by data element) what districts and CTEDs are responsible for when it comes to CTE data reporting in the CTE Data Portal.

Districts and CTEDs should work together to ensure that both are submitting quality, consistent, and *matching* data.

#### CTE DATA REPORTING ROLES & RESPONSIBILITIES - DISTRICTS AND CTED

Career and Technical Education Districts (CTED) and CTE-participating secondary school districts and charter schools (including CTED satellite campuses & member district schools) report CTE data to the Arizona Department of Education on an annual basis. This document outlines the roles and responsibilities of both CTEDs and their member districts for CTE data reporting. Instructions and additional materials regarding each element can be found on the ADE CTE website at <a href="https://www.azed.gov/cte">www.azed.gov/cte</a>.

Data Reporting Element	School Districts & Charter Schools	Career and Technical Education Districts
Coherent Sequence	<b>~</b>	<b>~</b>
Nonarticulated enrollment	<b>~</b>	<b>~</b>
Articulated enrollment	<b>~</b>	×
Industry-recognized Credential Attainment	<b>~</b>	<b>~</b>
Post-high school placements	<b>~</b>	<b>~</b>
CTE State Priority grant funding	<b>~</b>	×
Perkins V grant performance measures	<b>~</b>	×
Annual CTED Report (ARS § 15-393.01)	×	<b>~</b>

## Other Updates – CIP Update for FY 2022

Reminder: Some program and course numbers (CIP) have changed for FY 2022. Ensure that your district systems have the new numbers.

Coherent Sequence document (with new CIP) is on CTE website with changes highlighted in yellow (like Accounting):

			CTE Cohoront Coguence			
			CTE Coherent Sequence			
		0	School Year 2021-2022			
CIP	Carnegie Units	T S O	Program	Subject Area Code	Course Code	SCED
52.0301.00	2		Accounting			
			52.0301.10 Accounting I	AZ12	104	12104
			and			
			52.0301.20 Accounting II	AZ12	132	12132
			and program may elect to add:	1710	400	40400
		4	52.0301.30 Accounting III	AZ12	133	12133
		E A	52.0301.40 Accounting IV	AZ12	909	12909
		"	or or	ALIZ	909	12909
			52.0301.70 Accounting - DCE (Diversified Cooperative Education)	AZ12	910	12910
			or			
			52.0301.75 Accounting - Internship	AZ12	134	12134
			or		•	
			52.0301.80 Accounting - Cooperative Education	AZ12	135	12135
01.0000.00	3		AgriScience			
			01.0000.10 AgriScience I	AZ18	900	18900
			and			
			01.0000.20 AgriScience II	AZ18	901	18901
			and			140000
			01.0000.25 AgriScience III	AZ18	902	18902

## Other Updates – Industry Credentials Reporting

Industry Credentials template, code list, and instructions have also been posted on CTE website: <a href="https://www.azed.gov/cte/cte-industry-credentials">https://www.azed.gov/cte/cte-industry-credentials</a>.

#### **CTE Accountability**

- FY 2022 Credential File Upload Template
- NEW! FY 2022 Credentials List with Credentials Codes for File Upload Template
- FY 2022 Credentials Instructions



# Other Updates – Industry Credentials Reporting

Industry Credentials for SY 2020-2021 are still due by September 30, 2021.

We are working with our IT developers to make it possible to report two years' worth of credentials data simultaneously (2020-2021 and 2021-2022).

This solution would allow you to report each school year's credentials from the start of data collection through June 30<sup>th</sup> of the following fiscal year (12 month overlap).

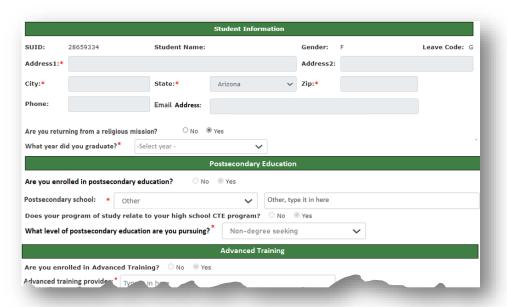
Example: SY 2020-2021 credentials would be reportable until June 30, 2022.

We have developed this update and it is working as expected. We are still working on minor updates to reports.

After all updates are complete, the SY 2020-2021 credential deadline will be extended to June 30, 2022. SY 2021-2022 credentials will be reportable from October 1, 2021, through June 30, 2023.

Reminder: student must still have enrollment record in that year for a credential to be reported! Example: to report a credential for SY2021, a student must have an enrollment record in FY2021.

## Other Updates - Placement Survey



#### Resources available at:

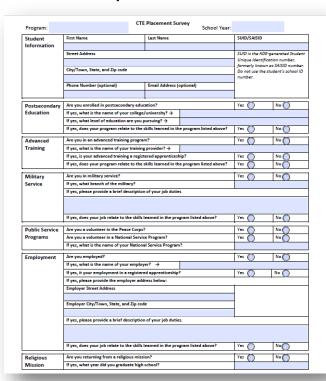
https://www.azed.gov/cte/cte-placement

## New Placement Survey Questions:

- 1. Postsecondary education and advanced training have been split into two categories
- 2. Level of education for postsecondary placement
- 3. Apprenticeship option for advanced training and employment
- 4. Job duties for employment and military service
- National Service Program name for NSP placement

## Other Updates – Placement Survey Resources

## Revised "paper form" survey with all new questions for 2021



## Placement Survey Follow-up Guide, including instructions for CTE Data Portal



## **Upcoming Training for CTE Data Portal**

Date	Time	Location	Topic
Friday, October 8, 2021	10:00 – 12:00pm	Virtual	CTE Data Portal – Districts
Tuesday, October 26, 2021	1:00 – 3:00pm	Virtual	CTE Data Portal – Districts
Thursday, November 4, 2021	2:10pm – 4:10pm See agenda	In-Person @ ACOVA	CTE Data Portal – Districts

#### **Other Helpful Resources:**

- 1. CTE Data Portal User Guide (Updated for FY 2022)
- 2. "Click here for instructions" pages (Updated for FY 2022)
  - 3. CTE website
    - 4. CTE staff

## CTE Accountability Contact Information

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CTE Accountability Lead Samuel.Irvin@azed.gov 602-364-1946









## CTE Administrators Meeting September 2021



#### **AZ CTE Summer Conference 2021**

The AZ CTE Summer Conference ended on August 26<sup>th</sup> when we took down all the videos and shut down the conference app.

Thanks to all of you who attended and worked on it and made it a great conference.

Speaker, Exhibitor, and Sponsor information is still available on the Summer Conference website.



### **Passport Contest Winners**

The Summer Conference Passport Contest Winners are as follows:

- Grand Prize Winner (\$200 Amazon gift card):
  - Jill Ranucci
- Additional Winners (\$50 Amazon gift card):
  - Shannon Rachal
  - Brian Ulmer
  - Diane Parsons
  - Kara Dellisanti





### **Next Upcoming Event**





### **ACTEAZ Fall Fest**

## Fall Fest is a virtual conference geared toward New CTE Teachers!

- Sessions will be available for on-demand viewing from October 28 to December 13, 2021. Enjoy all the videos at your convenience.
- We will be using Whova for this event, so you can still participate in the community boards, virtual hangouts, and more.
- Cost will be \$25.00, and registration will be available at <u>www.acteaz.org</u> shortly. Attendees will be awarded 10 Professional Development Hours.



## **Information to Come**

Read your e-blasts and check the ACTEAZ.org website for upcoming information on the following:

- Fall Fest Virtual Symposium (sessions available on-demand Oct. 28 Dec. 13, 2021)
- Midwinter Conference proposal submissions
- CTE Month activities
- Professional Development Opportunities Calendar
- Awards and Scholarship submissions
- ACTEAZ Affiliates
- Job postings on ACTEAZ website



## Want More Information?





Pam Ferguson, ACTEAZ Executive Director pamferguson@acteaz.org

Shelly York, ACTEAZ Asst. Executive Director shellyyork@acteaz.org
(623) 826-6399

Robert Waller, Premier Series Coordinator premierseries@acteaz.org

## PREMIER SERIES



# Premier Series: Professional success for instructors, leading to academic, personal, and career success for students



#### Classroom Management

- September 21 & 22 Tuesday & Wednesday (Online)
- September 25 Saturday (Online)
- November 16 Tuesday (In-person @ Chandler UHSD)

#### CTE Essentials

October 25 – Monday (In-person @ West-MEC)

#### CTE Program Management

- September 30 Thursday (In-person @ West-MEC)
- October 9 Saturday (Online)





- CTSO New Advisor Training
  - October 2 Saturday (Online)
  - December 8 Wednesday (In-person @ ADE)
- Effective Classroom Teaching
  - December 2 & 3 Thursday & Friday (Online)
- Effective Demonstrations
  - September 23 Thursday (In-person @ Pima JTED)



- Grading & Assessments
  - September 28 Tuesday (In-person @ West-MEC)
  - October 21 Thursday (Online)
- Instructional Best Practices
  - September 17 & 18 Friday & Saturday (Online)
  - November 6 & 13 Saturdays (Online)
- Lab Safety & Management
  - September 21 Tuesday (In-person @ West-MEC)
  - October 6 Wednesday (Online)





#### Lesson Plan Writing

- October 19 & 20 Tuesday & Wednesday (Online)
- December 7 & 8 Tuesday & Wednesday (Online)

#### Professional Skills

October 21 – Thursday (Online)

### Serving Exceptional Students in CTE

- September 18 Saturday (Online)
- October 28 Thursday (In-Person @ West-MEC)



## Upcoming PS Classes



- Strategic Planning
  - October 19 Tuesday (In-person @ West-MEC)
- Technical Reading & Performance Literacy
  - October 26 & 27 Tuesday & Wednesday (Online)
  - November 16 & 17 Tuesday & Wednesday (Online)
- Using Advisory Councils Effectively
  - November 30 *Tuesday* (Online)



## Upcoming PS Classes



- Using Rubrics to Increase Student Success
  - November 5 Friday (Online)
- Work-Based Learning
  - October 9 Saturday (Online)
  - October 23 Saturday (Online)
  - October 30 Saturday (Online)



## Premier Series Courses



- Advanced Methods of Teaching CTE
- Basic Instructional Technology for CTE
- Classroom Management
- CTE Essentials
- CTSO Advanced Advisor Training
- CTSO Advisor Toolbox
- CTSO New Advisor Training
- Effective Demonstrations
- Empowering Students Through Professional Skills

- Formative Assessments for CTE Programs
- Foundations of Online Instruction
- · Grading and Assessment
- Instructional Best Practices
- Lab Safety and Management
- Lesson Plan Writing
- Professional Knowledge Assessment
- Program Management
- Rubrics to Increase Student Success

- School-Based Enterprises
- Scope & Sequence
- Serving Exceptional Students in CTE
- Strategic Planning
- Technical Reading/Performance Literacy
- Technical Skills Assessments
- Using Advisory Councils Effectively
- Work-Based Learning

## Premier Series Information



- Start at www.acteaz.org
- Scroll down to the bottom of the page to the red panel that says "Teacher Series"
- From there you and your teachers can find:
  - Information about the Premier Series
  - Descriptions of every Premier Series course
  - Calendar of upcoming Premier Series classes and REGISTRATION LINKS
  - Information regarding CTE teacher certification and removal of certificate deficiencies
  - Additional teacher resources



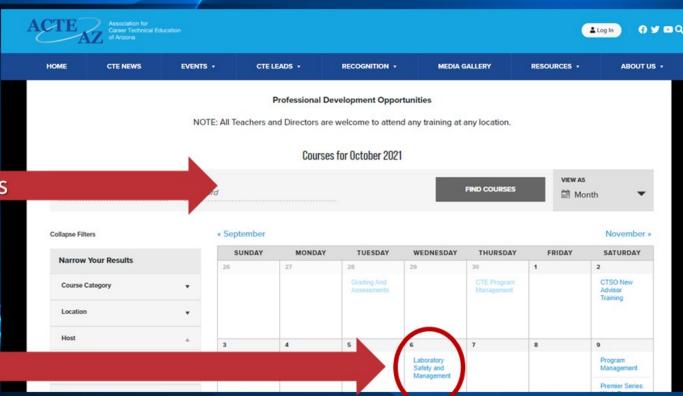
- Premier Series Information
- Courses Offered
- Course Calendar
- Teacher Certification
- ▶ Teacher Resources





Start at the Premier Series Course Calendar: acteaz.org/courses

Locate the class and click the Course Link







#### **Laboratory Safety and Management**

October 6 @ 8:00 am - 3:30 pm

« CTSO New Advisor Training

Program Management »

Are you ready for students in the lab? This course is designed to assist teachers develop a laboratory improvement plan including management, clean-up procedures, safety procedures, and meeting monitoring agency mandates. Participants will be introduced to a variety of techniques that will enable you to evaluate and manage your lab effectively and efficiently. Join us as we identify a variety of practical steps you can take to ensure that your students are safe in the laboratory and that you are protected.

Pima County JTED

+ GOOGLE CALENDAR

+ ICAL EXPORT

Details

October 6

8:00 am - 3:30 pm

Course Category: Laboratory Safety and Management

https://infohub.pimajted.org/events/64

Location

Online via Zoom

Click the class Registration Link

## ACTEAZ



If the registrant already has an ACTEAZ account, enter the username and password and click the "Login" button

Welcome to Work-Based Learning, Oct	9, 2021 - Online @ ACTEAZ Registration Management System  i October 9th
If you have attended ACTEAZ conference(s), or you Forgot your password button to reset it if necessary	ou have registered before, you already have an account. Use the xry.
Already have an account?	Don't have yet?
Login below.	Sign up below.
Enter username or member #:	
■ Email Address	ACTE
Enter password:	Association for
Password	Career Technical Education of Arizona
Login →	Create Account →
Forgot wour pa	ssword? Privacy Statement Refund Policy

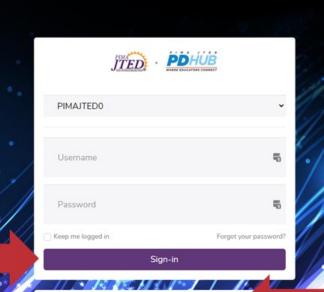
If the registrant does not have an ACTEAZ account, click the "Create Account" button

## Pima JTED



If the registrant already has a Pima JTED account, enter the username and password and click

"Sign-in"



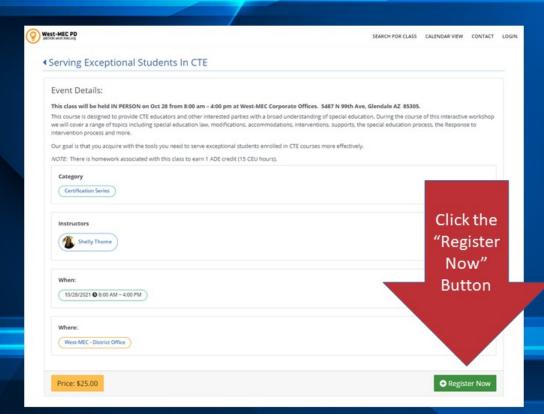
If the registrant does not have a Pima JTED account, send an email message to Mary Andrade to request one

To request a new PD account please click here

mandrade@pimajted.org

## West-MEC





## West-MEC



If the registrant already has a West-MEC account, enter the email address and password and click the "Login" button



← Back to Courses

If the registrant does not have a West-MEC account, click the

"Create Account" button





For more information about the Premier Series or to schedule on-site or virtual Premier Series classes for your instructors, please contact:

Robert Waller
ACTEAZ Premier Series Coordinator

premierseries@acteaz.org



## **News and Updates**

- CTE Curriculum Connection
- Upcoming Events
- 2021-22 Meeting Dates



### **CTE Curriculum Connection**

- → Have you Checked the Connection site
  - CTE Program Instructional Resources
    - Video links

#### → New Resources

- Announced via Discussion Forum
- ◆ Links in email

#### → Training and Support

Please reach out for a <u>training session</u>



## **Upcoming Events**

Blueprint & Instructional				
Framework	Programs			
<ul> <li>Virtual Events (Asynchronous and</li> </ul>	Accounting			
Synchronous)	Architectural Drafting			
During Non-contract hours	Automotive Collision Repair			
During Non-Contract nours	Precision Machining			
<ul> <li>Eligible for Project Payment</li> </ul>	Mechanical Drafting			
	Diesel Engine Repair			
	Electronic Technologies			
	Welding			

→ Nominate Today:





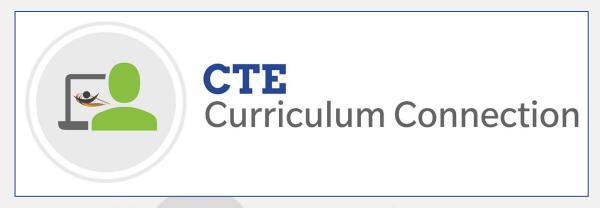
### **Meeting Dates**

→ Quarterly Meeting

October 27, 2021 10:00am - 12:00pm

- Virtual via Zoom
- Collaboration Session
- → Future Quarterly Meetings
  - ◆ February 9, 2022
  - ◆ April 20, 2022





Reach us: <a href="mailto:support@ctecaz.org">support@ctecaz.org</a>

Follow on Social Media:

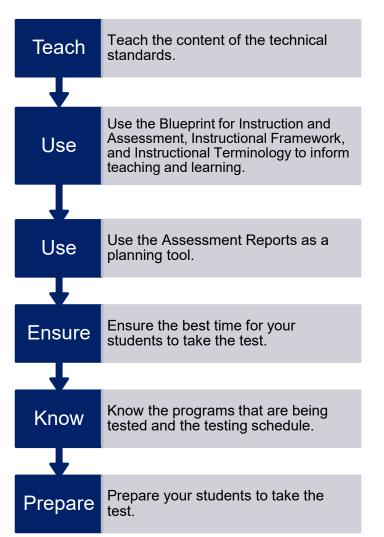






## Six Ways to Ensure Student and Program Success on the Technical Skills Assessments (TSAs)







## **Technical Standards**

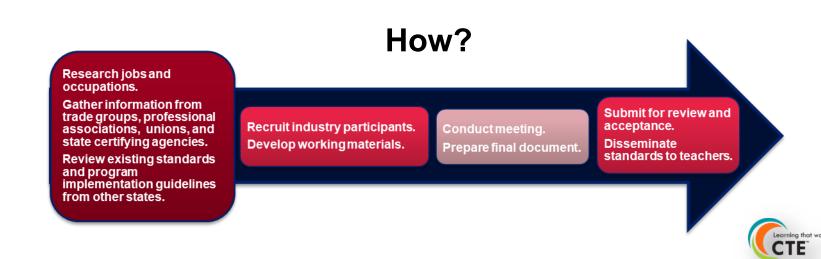
Teach the Content of the Technical Standards

### Why?

- The program standards
   (S/MCs) emphasize learning
   goals focused on key
   knowledge and skills.
- They provide a strong sense of what students and teachers are expected to do.

#### When?

 A discussion with the Program Specialists, teacher requests, and change and advancement in industry are critical in determining the need for standard review.



## **Technical Standards**

Teach the Content of the Technical Standards



#### **ENGINEERING 15.0000.00**

#### TECHNICAL STANDARDS

An Industry Technical Standards Validation Committee developed and validated these standards on September 17, 2020. The Arizona Career and Technical Education Quality Commission, the validating authority for the Arizona Skills Standards Assessment System, endorsed these standards on January 27, 2021.

Note: Arizona's Professional Skills are taught as an integral part of the Engineering program.

The Technical Skills Assessment for Engineering is available SY2021-2022.

Note: In this document i.e. explains or clarifies the content and e.g. provides examples of the content that must be taught.

#### STANDARD 1.0 INVESTIGATE THE FIELD OF ENGINEERING TO ADDRESS THE NEEDS OF A GLOBAL SOCIETY

- 1.1 Define the disciplines of engineering (types of engineers) (i.e., chemical, civil, electrical, mechanical, agricultural, industrial aeronautical, software, biomedical, etc.)
- 1.2 Recognize that engineers solve a wide range of problems involving innovation, cost reduction, and more efficient/effective processes
- 1.3 Describe the specialties/areas of training that may lead to jobs/careers (i.e., transportation, construction, research and development, analytical design, disaster management, waste management, environmental, automation and robotics, etc.)
- 1.4 Explore emerging fields in engineering and challenges to future work and future life [i.e., drones, electric cars, autonomous cars, Al, IoT, Virual Reality (VR), Augmented Reality (AR), Mixed Reality (MR), Additive Manufacturing (AM), Smart City design, Automation, Machine Learning (ML), M2M (Machine to-Machines), 442M (Human-to-Machines), 452M
- 1.5 Analyze the societal, environmental, legal, and ethical responsibilities of engineers (e.g., Engineering Code of Ethics, economic, political, sustainability, and community health and safety)
- 1.6 Determine the skills and education required to enter engineering careers (i.e., aptitude for math and science; complex problemsolving, critical thinking and decision-making interpreting plans, schematics, and blueprints; communication skills to influence and convey facts with specificity, etc.)

#### STANDARD 2.0 CREATE ENGINEERING SOLUTIONS BY APPLYING A STRUCTURED PROBLEM-SOLVING/DECISION-MAKING PROCESS

- 2.1 Identify the problem
- 2.2 Develop a problem statement based on facts, research, and experience
- 2.3 Explore possible issues or options to the problem
- 2.4 Select the best solution within the constraints and criteria
- 2.5 Develop a prototype or model to test the selected solution
- 2.6 Implement the solution
- 2.7 Evaluate the solution, and revise or repeat if necessary (i.e., Are there other solutions, better solutions, or cheaper solutions? etc.)
- 2.8 Document and report all results

#### STANDARD 3.0 APPLY MATHEMATICAL LAWS AND PRINCIPLES RELEVANT TO ENGINEERING TECHNOLOGY

- 3.1 Use basic mathematical functions and tools (i.e., Google Sheets, Excel, graphing calculator, etc.)
- 3.2 Use data collection and analysis to display data and verify its accuracy
- 3.3 Display data graphically using diagrams and working drawings
- 3.4 Use statistical measures of a central tendency (mean, median, and mode) as needed in the structured problem-solving process
- 3.5 Use mathematical models including algebraic, geometric, trigonometric, and calculus relationships to solve, analyze, and design solutions
- 3.6 Generate manually and electronically mathematical solutions and evaluate their validity
- 3.7 Use English and Metric systems of measurement

Note: In this document i.e. explains or clarifies the content and e.g. provides examples of the content that must be taught.

Arizona Department of Education Career and Technical Education

Engineering Technical Standards 15000000

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#### Who?

The Arizona Career and Technical Education Quality Commission is the validating authority of the standards.

#### When?

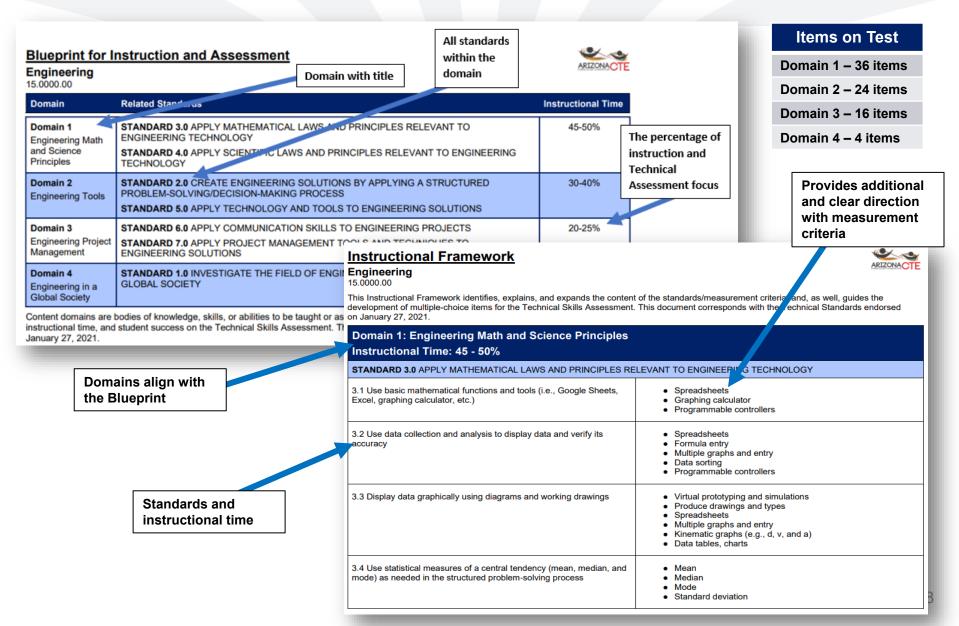
Once endorsed, the completed standards are uploaded to the CTE website and further disseminated to teachers by the Program Specialists.

#### What?

Header, standards and measurement criteria, i.e. and e.g.



## Use <u>Blueprint for Instruction and Assessment</u>, <u>Instructional Framework</u>, and <u>Instructional Terminology</u> to Inform Teaching and Learning



### Technical Skills Assessment



Use Assessment Reports as a Planning Tool

TSA reports provide a numerical description of what students learn and how well programs perform.

	Program Assessment Results							
	Program Standards	Percent of Operational Items on Assessment	Percent of Correct Responses					
1.0	INVESTIGATE ENGINEERING AS A HUMAN ENDEAVOR AIMED TO ADDRESS THE NEEDS OF A GLOBAL SOCIETY	6	76					
2.0	APPLY A STRUCTURED PROBLEM-SOLVING PROCESS TO CREATE SOLUTIONS	12	76					
3.0	APPLY MATHEMATICAL LAWS AND PRINCIPLES RELEVANT TO ENGINEERING AND TECHNOLOGY	23	73					
4.0	APPLY FUNDAMENTAL SCIENTIFIC LAWS AND PRINCIPLES RELEVANT TO ENGINEERING AND TECHNOLOGY	23	67					
5.0	APPLY ENGINEERING TECHNOLOGY AND TOOLS	28	73					
6.0	APPLY DOCUMENTATION AND COMMUNICATION SKILLS	3	70					

The **Program Assessment Report** shows the percentage of correct responses for all students for each standard. Results identify program strengths and weaknesses that can be used to facilitate best practices among campuses.

The **Statewide Performance Report** shows highest to lowest results <u>for one program</u> sorted by CTED/Non-CTED, district, and school. Each district/school performance can be viewed relative to other districts/schools offering the same program.

-	Statewide Performance Report							
CTED RESUL	LTS							
	CTED			Number of Students Tested	Average Assessment Score	Percent of Students Passed		
Western Arizo	Western Arizona Vocational District #50					85	100	
West-MEC - V	West-MEC - Western Maricopa Education Center				235	73	84	
East Valley In	East Valley Institute of Technology			288	73	85		
Coconino Association for Vocation Industry and Technology			62	71	82			
Pima County	Pima County JTED			103	71	81		
Central Arizon	Central Arizona Valley Institute of Technology				12	70	83	
Southwest Te	Southwest Technical Education District of Yuma (STEDY)			58	64	66		
Cochise Tech	Cochise Technology District				12	63	75	
ts	s			63	67			
Attendance	Gender	Special	Grade Level	ore	N/A	60	N/A	
		Boundation	and the second		A114	**	ALVA.	

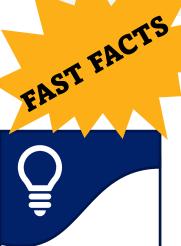
Assessment	Assessment CIP	Assessment Date	Assessment Score	School Of Attendance	Gender	Special Population	Grade Level	
ENGINEERING	15.0000.00	04/23/2021	98	Shadow Ridge High School	M		12	
ENGINEERING	15.0000.00	05/13/2021	96	Empire High School	M		12	
ENGINEERING	15.0000.00	04/26/2021	96	Shadow Ridge High School	M		12	
ENGINEERING	15.0000.00	05/11/2021	96	Sunrise Mountain High School	M		12	
ENGINEERING	15.0000.00	05/13/2021	95	Coconino High School	M		12	
ENGINEERING	15.0000.00	05/13/2021	95	Empire High School	M		12	
ENGINEERING	15.0000.00	04/23/2021	95	Shadow Ridge High School	M		11	
ENGINEERING	15.0000.00	04/23/2021	95	Shadow Ridge High School	M		11	
ENGINEERING	15.0000.00	04/23/2021	95	Shadow Ridge High School	M		11	

The **Total Program Report** shows highest to lowest results for one or all programs sorted by CTED/Non-CTED, district, and school. Each district/school performance can be viewed relative to other district/school performances.



## Technical Skills Assessment





#### Fact 1

TSA scores are shown as percentages (60% of 80 operational items).



#### Fact 2

TSA results are shown at the standard level not the measurement criterion level.



#### Fact 3

Test
configuration is
based on
available TSA
Items for the
Blueprint
Domains.



#### Fact 4

Overall design of the TSA is to encourage teaching to the standards and not to the test.



#### Fact 5

COLLABORATE!

COLLABORATE!

COLLABORATE!



## Technical Skills Assessment



Why the change?

Phase 1 - 2006

Phase 2 - 2016



Fact 2

TSA results are shown at the standard level not the measurement criterion level.

Test results shown at measurement criterion level

Each TSA with its own pass score

100 items for all TSAs

TSA data for A-F Report Card and Perkins Program Compliance

Blueprint for Instruction & Assessment and Instructional Framework

Test results shown at standard level for reliability and security

Pass score of 60% of 80 operational items for all TSAs

100 items for all TSAs (80-20 configuration)





## Technical Standards and Skills Assessment Questions

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# Next CTE Administrators Meeting – November 4, 2021 Prescott Resort