

<b>Program Name</b>	<b>Technical Theatre</b>
<b>Program CIP Code</b>	50.0500.20
<b>Program Description and Coherent Sequence</b>	<p>The <b>Technical Theatre</b> instructional program is designed to prepare students for employment or advanced postsecondary coursework in the performing arts and entertainment industries, with an emphasis on technical and project management applications in theatrical productions. A student completing this program will possess essential technical knowledge and skills associated with production planning, crew and stage management, technical direction and theatre safety, computer-assisted drafting, scenery and property construction, costuming and makeup design, theatrical rigging, stage lighting, sound design and audio engineering and special theatrical effects.</p> <p>In addition to technical skills and knowledge, students completing this program will develop critical workplace employability skills, including complex communication, collaboration and critical thinking skills; professionalism, initiative and self-direction; organizational, intergenerational and cross-cultural competence; and legal, ethical and financial practices related to the performing arts and entertainment industries.</p> <p>The <b>Technical Theatre</b> instructional program utilizes a delivery system comprised of four critical, interrelated components:</p> <ul style="list-style-type: none"> <li>• Formal/technical instruction</li> <li>• Hands-on, experiential learning</li> <li>• Supervised, real-world occupational experiences</li> <li>• Active participation in the state-recognized Career and Technical Student Organization, SkillsUSA</li> </ul> <p><i>(NOTE: In addition to SkillsUSA, <b>Technical Theatre</b> students are encouraged to be active members of the Arizona chapter of the International Thespian Society.)</i></p> <p>The following describes the recommended sequence of courses developed from industry-validated skills and knowledge necessary for initial employment or advanced postsecondary coursework in the performing arts and entertainment industries. All state-designated <b>Technical Theatre</b> standards are addressed in this instructional sequence:</p> <p><b>Fundamentals of Performing Arts and Entertainment Industry – Technical Theatre:</b> 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</p>

	<p>applications. (A recommended pre-requisite of a fine arts class in theatre, music or dance is not funded through CTE.</p> <p><b>Performing Arts and Entertainment Industry - Technical Theatre I:</b> Prepares individuals to manage the planning, design, preparation and application of theatrical production as described above.</p> <p><b>Performing Arts and Entertainment Industry - Technical Theatre II:</b> This third, optional course continues the work of Performing Arts and Entertainment Industry - Technical Theatre I with students managing the planning, design, preparation and application of theatrical production as described above.</p> <p><b>Work-based Learning:</b> Students have the opportunity to participate in either a Technical Theatre Cooperative Education experience or an Internship.</p>
<p><b>Industry Validated Standards</b></p>	<p><a href="http://www.azed.gov/career-technical-education/files/2011/11/technical-standards-technical-theatre-50050020.pdf">http://www.azed.gov/career-technical-education/files/2011/11/technical-standards-technical-theatre-50050020.pdf</a></p>
<p><b>Specialized Equipment</b></p>	<p>Equipment List can be accessed at:  <a href="http://www.azed.gov/career-technical-education/files/2014/04/equipment-list-technical-theatre-50050020.pdf">http://www.azed.gov/career-technical-education/files/2014/04/equipment-list-technical-theatre-50050020.pdf</a></p>
<p><b>Industry Recognized Certifications</b></p>	<p>The Technical Theatre industry does not currently have industry-recognized certifications.</p>
<p><b>CTE End-Of- Program (EOP) Technical Skill Assessment (TSA) Y/N</b></p>	<p>Y</p>
<p><b>Current EOP TSA Pass Score</b></p>	<p>60%</p>
<p><b>Participation in JTED Program Qualifies Students for These Employment Opportunities</b></p> <p>...continued on next page</p>	<ul style="list-style-type: none"> <li>• Audio/Sound Designer/Engineer</li> <li>• Costume Designer</li> <li>• Entrepreneurial, Free-Lance Theatre/Entertainment Technician, Designer, Producer, etc.</li> <li>• Event Planning</li> <li>• Film and Television Production</li> <li>• Industrial Rigger</li> <li>• Lighting Designer/Technician</li> <li>• Makeup Designer</li> <li>• Production Manager</li> <li>• Property Master</li> <li>• Scenic Designer</li> </ul>

**Participation in JTED Program  
Qualifies Students for These  
Employment Opportunities  
(continued)**

- Set Designer
- Stage Manager
- Technical Director
- Theatre/Entertainment Technician, Designer, or Producer:
  - Churches, Synagogues, Mosques, and other religious institutions
  - Convention Centers
  - Hotels and Resorts
  - Public and Private Theatrical Venues – High School, College, University, Corporate, Community, Regional, Professional, Dinner Theatres, etc.
  - Sports Arenas and Stadiums
  - Theme Parks
- Theatrical Rigger

DRAFT

## SB1525 JTED Course and Program Requirements

<p><b>Requires students obtain passing score of 60% on assessment</b> 15-391(3)(b) Page 1/20-24 &amp; 15-391(5)(b) Page 2/1-6</p>	<p>Not at the present time, although this could be easily remedied.</p>
<p><b>Not a Course Required under Minimum Course of Study including Honors</b> 15-391(3)(d) Page 1/27-29</p>	<p>Yes</p> <p>Courses in this program <u>are not required for graduation.</u></p> <p>Courses in this program <u>can be used to meet the CTE or Fine Arts option required for graduation.</u></p>
<p><b>Majority of Instructional Time in Lab / Field / Work Based Learning Environment</b> 15-391(3)(e) Page 1/30-32 and</p> <p><b>Requires CTSO Participation</b> 15-391(5)(d) Page 2/10-13</p>	<p>Yes, the majority of instructional time in the program is dedicated to lab- and work-based learning.</p> <p>SkillsUSA</p>
<p><b>Demonstrated Need for Extra Funding for a course</b> 15-391 (3)(f) Page 1/33-34</p>	<p>Yes</p> <p>Extra funding is required for the CTE Technical Theatre program as demonstrated by:</p> <ul style="list-style-type: none"> <li>• The cost of industry-standard specialized Technical Theatre equipment: Dedicated computers and industry-related computer software, workshop tools, hand-held power tools, metalwork tools, costuming tools and supplies, rigging supplies and materials, lighting tools, sound tools and stage management tools.</li> <li>• The cost of industry-standard portable Technical Theatre equipment and fixtures: Staging, seating, supports, drapes and curtains, lighting, audio, electrical, safety, storage and transportation.</li> <li>• The cost of program consumables: Building materials, paint and other scenic supplies, fabric and other costuming supplies, lighting gels, theatrical makeup, gaffers tape.</li> <li>• The need for non-auditorium/non-classroom workshop and storage space.</li> <li>• The cost of supplemental materials and texts.</li> <li>• The need for teachers to engage in high-quality, cutting-edge professional development to stay abreast of industry trends and advancements in Technical Theatre-related equipment and procedures</li> </ul>

**Specialized Equipment Exceeds Cost of Standard Course** 15-391(3)(g) Page 1/35-36 and 15-391(5)(c) Page 2/7-9

Yes

To meet industry-validated standards and to prepare students for careers in the Technical Theatre industry, the CTE-Technical Theatre program requires significant specialized equipment that far exceeds the costs of a standard course:

#### Dedicated High-end Computers

#### Computer Software

- VectorWorks Architect or other Computer-Aided Drafting (CAD) application.
- Adobe Audition, Q-Lab or other professional-grade audio editor and post-production suite.

#### Portable Theatrical Equipment and Fixtures

- Risers, platforms, stair units, and guardrails
- Supports (lighting, drapes, curtains)
- Portable light controller, theatrical lights, and lighting accessories
- Portable sound system, mixer, microphones, speakers, cables and audio accessories
- Portable rigging equipment
- Portable electrical equipment (electrical distribution, cables, plugs and connectors)

#### Workshop Tools

- Table or panel saw
- Compound miter saw or radial arm saw
- Band saw
- Drill press
- Dust collector or wet/dry vacuum with tool attachments

#### Hand-held Power Tools

- Cordless drill
- Circular saw
- Jig saw
- Router
- Hammer drill
- Belt sander
- Reciprocating saw
- Rotary tool

#### Metalwork Tools

- Cut off or cold saw
- Wire feed flux-core welder (or similar)
- Angle grinder
- Arc blanket/curtain

	<p>Costuming Tools</p> <ul style="list-style-type: none"> <li>• Commercial-grade sewing machine</li> <li>• Commercial garment steamer</li> <li>• Commercial iron</li> <li>• Ironing board</li> <li>• Commercial serger or overlock sewing machine</li> <li>• Adjustable dress form</li> <li>• Sleeve/seam board</li> <li>• Washer and dryer</li> </ul> <p>Rigging Supplies and Materials</p> <ul style="list-style-type: none"> <li>• Fixed and portable rigging materials</li> <li>• Cyclorama</li> <li>• Scrim (optional)</li> </ul> <p>Lighting Equipment</p> <ul style="list-style-type: none"> <li>• Light control/dimming system</li> <li>• Wash fixtures (Multi par, Fresnel, etc.)</li> <li>• Spot fixtures</li> <li>• LED fixtures</li> <li>• Moving lights</li> <li>• Lighting accessories (Iris, gobo, top hat, barn door, donut)</li> </ul> <p>Sound Equipment</p> <ul style="list-style-type: none"> <li>• Multi-channel audio mixer (analog as well as digital)</li> <li>• Graphic equalizer</li> <li>• Amplifiers</li> <li>• Full-range speakers</li> <li>• Monitor speakers</li> <li>• Input devices for live reinforcement (dynamic microphones, condenser microphones, direct-input) and playback (CD and digital files)</li> <li>• Wireless audio transmission system</li> </ul> <p>Stage Management Equipment</p> <ul style="list-style-type: none"> <li>• Wireless duplex communication system</li> </ul> <p>Specialized Storage and Transportation Resources</p> <ul style="list-style-type: none"> <li>• Shelving</li> <li>• Flammable storage cabinets</li> <li>• Rugged transportation containers</li> </ul> <p>Atmospheric and Video Effects Equipment</p>
<p><b>Alignment through Curriculum, Instructional Model and Courses Sequence 15-391(5)(e) Page 2/15-18</b></p>	<p>Yes</p> <p>State-established course sequence for Technical Theatre program consists of two Carnegie units of instruction.</p>

	<p>Recommended sequence of courses developed from industry-validated skills necessary for initial employment or continued related education:</p> <ul style="list-style-type: none"> <li>• <i>Fundamentals of Performing Arts and Entertainment Industry - Technical Theatre</i>, and</li> <li>• <i>Performing Arts and Entertainment Industry - Technical Theatre I</i></li> </ul> <p>Program may elect to add:</p> <ul style="list-style-type: none"> <li>• <i>Performing Arts and Entertainment Industry -Technical Theatre II</i>, or</li> </ul> <p>Program may elect to add:</p> <ul style="list-style-type: none"> <li>• <i>Performing Arts and Entertainment Industry – Internship</i>, or</li> <li>• <i>Performing Arts and Entertainment Industry - Cooperative Education</i></li> </ul> <p>The CTE-Technical Theatre program provides quality project-/work-based instruction by following the Arizona CTE Career Preparation Standards and Measurement Criteria for Technical Theatre, 50.0500.20:</p> <ul style="list-style-type: none"> <li>• STANDARD 1.0 – Investigate how theatrical design components contribute to theatrical production</li> <li>• STANDARD 2.0 – Explore how technical theatre realizes the design process</li> <li>• STANDARD 3.0 – Scenery: Practice theatrical construction techniques that realize the set design</li> <li>• STANDARD 4.0 – Costumes: Practice theatrical construction techniques that realize the costume design</li> <li>• STANDARD 5.0 – Properties: Collaborate with director and design team on property list and set dressings</li> <li>• STANDARD 6.0 – Rigging: Employ safe rigging practices</li> <li>• STANDARD 7.0 – Lighting: Practice theatrical lighting that realizes the lighting design</li> <li>• STANDARD 8.0 – Sound: Practice audio techniques that realize the sound design</li> <li>• STANDARD 9.0 – Stage management: Apply organizational and communication skills to managing a theatrical production</li> <li>• STANDARD 10.0 – Stagehands: Perform tasks necessary to support the production</li> <li>• STANDARD 11.0 – Practice marketable workplace skills</li> </ul>
<p><b>Defined Pathway to Career and Postsecondary Ed in Specific Vocation or Industry 15-391(5)(f)</b> Page 2/19-21</p>	<p>Yes</p> <p>CTE Technical Theatre students are eligible to earn dual enrollment college credits from postsecondary institutions that have appropriate collaborative agreements between the college and the LEA.</p>

	<p>There are numerous defined career and postsecondary pathways for Technical Theatre:</p> <ul style="list-style-type: none"> <li>• Completion of CTE-Technical Theatre Program (High School) → Career</li> <li>• Completion of CTE-Technical Theatre Program (High School) → Internship → Career</li> <li>• Completion of CTE-Technical Theatre Program (High School) → CCL → Career</li> <li>• Completion of CTE-Technical Theatre Program (High School) → AAS Degree → Career</li> <li>• Completion of CTE-Technical Theatre Program (High School) → BS Degree → Career</li> </ul> <p>Postsecondary education examples:</p> <ul style="list-style-type: none"> <li>• <b>Phoenix College:</b> Certificate of Completion (CCL) in Technical Theatre</li> <li>• <b>Maricopa Community College District:</b> Associate in Arts, Fine Arts – Theatre (AA-Theatre)</li> <li>• <b>Pima Community College:</b> Associate of Fine Arts – Theatre Concentration</li> <li>• <b>Grand Canyon University:</b> Bachelor of Arts in Theatre and Drama</li> <li>• <b>Arizona State University:</b> Bachelor of Arts in Theatre (Design and Production)</li> <li>• <b>University of Arizona:</b> Bachelor of Fine Arts in Design/Technical Production</li> <li>• <b>Northern Arizona University:</b> Bachelor of Arts, Bachelor of Science or minor in Theatre, with emphasis in Design and Technology</li> </ul>
<p><b>Fills High Need Vocation or Industry as Determined by CTE/ADE 15-391(5)(j) Page 2/30-31</b></p>	<p>Yes</p> <p>The CTE Technical Theatre program is ranked 71<sup>st</sup> on the 2016 CTE Program List. Ranking is based on “high demand, high wage, high skills” occupations as determined by Arizona labor market data from the Arizona Office of Employment and Population Statistics.</p>
<p><b>Requires a Single or Stackable Credential or a Skill that allows a student to obtain work 15-391(5)(k) Page 2/32-35</b></p>	<p>Yes, the program teaches skill that allows a student to obtain work.</p> <p>Program completers will develop the following stackable workplace skills:</p> <ul style="list-style-type: none"> <li>• Planning/design/<u>pre-production</u> phase of theatrical production</li> <li>• Rehearsal/construction/<u>implementation</u> phase of theatrical production</li> <li>• Performance/<u>production</u> phase of theatrical production.</li> </ul>

	<p>Further, CTE-Technical Theatre program completers will receive training in the following in-demand workplace skills:</p> <ul style="list-style-type: none"> <li>• Safety</li> <li>• First aid</li> <li>• CPR</li> <li>• (OSHA-10 certification is recommended)</li> <li>• Workplace employability skills: <ul style="list-style-type: none"> <li>○ Complex communication</li> <li>○ Collaboration</li> <li>○ Thinking and innovation</li> <li>○ Professionalism</li> <li>○ Initiative and self-direction</li> <li>○ Intergenerational and cross-cultural competence</li> <li>○ Organizational culture</li> <li>○ Leadership (through participation in SkillsUSA)</li> <li>○ Legal and ethical practices</li> <li>○ Financial practices</li> <li>○ Resume and portfolio creation and presentation</li> </ul> </li> </ul>
<p><b>Leads to certification or licensure verified by that vocation or industry that qualifies student for employment which the student would not otherwise qualify.</b> 15-391(5)(l) Page 2/36-39</p>	<p>No</p> <p>The Technical Theatre industry does not currently have industry-recognized certifications or licenses.</p>
<p><b>If no certification or licensure is accepted by vocation or industry, completion of program must qualify student for employment for which student would not otherwise qualify without completing JTED program.</b> 15-391(5)(l) Page 2/39-43</p>	<p>Yes</p> <p>In the Technical Theatre industry, knowledge and skill are the keys to securing employment.</p> <p>Completion of the CTE Technical Theatre program will qualify students for the following employment opportunities (as evidenced by the attached Technical Theatre job opportunities):</p> <ul style="list-style-type: none"> <li>• Audio/Sound Designer/Engineer</li> <li>• Costume Designer</li> <li>• Entrepreneurial, Free-Lance Theatre/Entertainment Technician, Designer, Producer, etc.</li> <li>• Event Planning</li> <li>• Industrial Rigger</li> <li>• Lighting Designer/Technician</li> <li>• Makeup Designer</li> <li>• Production Manager</li> <li>• Property Master</li> <li>• Scenic Designer</li> <li>• Set Designer</li> <li>• Stage Manager</li> <li>• Technical Director</li> </ul>

	<ul style="list-style-type: none"> <li>• Television Production</li> <li>• Theatre/Entertainment Technician, Designer or Producer: <ul style="list-style-type: none"> <li>○ Churches, Synagogues, Mosques and other religious institutions</li> <li>○ Convention Centers</li> <li>○ Hotels and Resorts</li> <li>○ Public and Private Theatrical Venues – High School, College, University, Corporate, Community, Regional, Professional, Dinner Theatres, etc.</li> <li>○ Sports Arenas and Stadiums</li> <li>○ Theme Parks</li> </ul> </li> <li>• Theatrical Rigger</li> </ul> <p>Successful completion of the CTE-Technical Theatre end-of-program assessment will serve as validation and verification of student mastery of course concepts.</p>
<p><b>Requires instruction and instructional materials substantially different from and exceed scope of standard instruction and include skills, competencies and knowledge to be successful in JTED program vocation or industry. 15-391(5)(m) Page 2/44-45 and 3/1-3</b></p>	<p>Yes</p> <p>The CTE Technical Theatre program requires hands-on instruction in a lab-/work-based learning environment.</p> <p>The CTE Technical Theatre program requires instructional materials and resources that are substantially different from and exceed the scope of standard instruction:</p> <ul style="list-style-type: none"> <li>• Specialized Equipment: <ul style="list-style-type: none"> <li>○ Dedicated high-end computers</li> <li>○ Specialized computer software</li> <li>○ Portable theatrical equipment and fixtures</li> <li>○ Workshop tools</li> <li>○ Hand-held power tools</li> <li>○ Metalwork tools</li> <li>○ Costuming tools and supplies</li> <li>○ Rigging equipment and supplies</li> <li>○ Lighting equipment</li> <li>○ Sound equipment</li> <li>○ Stage management equipment</li> <li>○ Specialized storage and transportation resources</li> <li>○ Atmospheric and video effects equipment</li> </ul> </li> <li>• Program consumables <ul style="list-style-type: none"> <li>○ Building materials</li> <li>○ Fabric and other costuming supplies</li> <li>○ Lighting gels</li> <li>○ Theatrical makeup</li> </ul> </li> <li>• Supplemental materials and texts</li> </ul> <p>The CTE Technical Theatre program includes instruction in program-specific skills, competencies and knowledge required to be successful in the Technical Theatre industry: <i>continued on next page...</i></p>

	<ul style="list-style-type: none"> <li>• Audio design and engineering</li> <li>• Costume design and fabrication</li> <li>• Entrepreneurial skills</li> <li>• Event planning</li> <li>• Film and television production</li> <li>• Industrial rigging</li> <li>• Lighting design and implementation</li> <li>• Makeup design and application</li> <li>• Production management</li> <li>• Property design and fabrication</li> <li>• Scenic design and construction</li> <li>• Set design and construction</li> <li>• Sound design and engineering</li> <li>• Stage management</li> <li>• Technical direction</li> <li>• Theatrical rigging</li> </ul>
<p><b>Industry provided financial or technical support.</b> 15-391(5)(n) Page 3/4-8</p>	<p>Yes</p> <ul style="list-style-type: none"> <li>• Classroom volunteers/guest teachers</li> <li>• Field trips to theatrical and entertainment venues</li> <li>• Guest speakers</li> <li>• Industry training</li> <li>• Internships</li> <li>• Shared production resources</li> <li>• Teaching artists and technicians</li> <li>• Technical Theatre Advisory Council</li> <li>• Theatre festivals, workshops, conferences and leadership camps</li> </ul>
<p><b>Demonstrated need for extra funding in order to provide JTED program</b> 15-391(5)(o) Page 3/9-11</p>	<p>Yes</p> <p>To meet industry-validated standards and to prepare students for careers in the Technical Theatre industry, the CTE Technical Theatre program requires significant extra funding for:</p> <ul style="list-style-type: none"> <li>• Equipment <ul style="list-style-type: none"> <li>○ Computers and software</li> <li>○ Portable theatrical equipment and fixtures</li> <li>○ Workshop tools</li> <li>○ Hand-held power tools</li> <li>○ Metalwork tools</li> <li>○ Costuming tools</li> <li>○ Rigging supplies and materials</li> <li>○ Lighting equipment</li> <li>○ Sound equipment</li> <li>○ Stage management equipment</li> <li>○ Specialized storage and transportation resources</li> <li>○ Atmospheric and video effects equipment</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>• Consumables <ul style="list-style-type: none"> <li>○ Building materials</li> <li>○ Paint and other scenic materials</li> <li>○ Fabric, thread, buttons, zippers and other costuming supplies</li> <li>○ Lighting gels</li> <li>○ Theatrical makeup</li> <li>○ Production supplies such as gaffers tape</li> </ul> </li> <li>• Supplemental materials and texts</li> </ul>
--	--

<b>Eligibility</b>		<b>Yes</b>	<b>No</b>
JTED	The <b>Technical Theatre</b> program meets the requirements for <b>JTED</b> compliance and eligibility	x	
CTE Federal Perkins and State Priority	The <b>Technical Theatre</b> program meets the requirements for <b>Perkins</b> and is eligible to generate <b>CTE State Priority funding</b> .	x	

DRAFT