

<b>Program Name</b>	<b>Digital Printing</b>
<b>Program CIP Code</b>	10.0200.20
<b>Program Description and Coherent Sequence</b>	<p>The <b>Digital Printing</b> instructional program prepares the students to learn the process of the integration of a new era in printing with digital copiers and presses. Digital printing has caused a paradigm shift in the printing world; making the impossible, possible. It has brought solutions that many print customers needed and offers a variable printing option that is now considered essential in the industry. The certifications that a student earns are: Adobe Certified Associate in InDesign; Adobe Certified Associate in Illustrator; Adobe Certified Associate in Photoshop; PrintED; Digital File Preparation/Digital File Output; Offset Press Operations/Bindery &amp; Finishing; Screen Printing; and Idealliance. 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, SkillsUSA.</p> <p><b>Communication Media Technologies Fundamentals:</b> This course is an introduction to technical skills and knowledge for a mixture of CMT program areas (Animation, Digital Communications, Digital Photography, Digital Printing, Graphic/Web Design, Film &amp; TV and Music and Audio Productions) that are reflected at each school. Instruction will include:</p> <ul style="list-style-type: none"> <li>• Analyzing the media industry, business practices and its role in the economy.</li> <li>• Investigating the Intellectual Property Law and Rights Management.</li> <li>• Demonstrating verbal and nonverbal communication skills required by the media industry.</li> <li>• Demonstrating written communication skills within the media industry.</li> <li>• Utilizing computer applications to manage media.</li> <li>• Applying knowledge of data capture and manipulation.</li> </ul> <p><b>Fundamentals of Digital Printing:</b> This course is an introduction to technical skills and knowledge for Digital Printing. Instruction will include:</p> <ul style="list-style-type: none"> <li>• Analyzing the media industry, business practices and its role in the economy as it relates to Digital Printing.</li> <li>• Investigating the Intellectual Property Law and Rights Management as it relates to Digital Printing.</li> <li>• Demonstrating verbal and nonverbal communication skills required by the media industry as it relates to Digital Printing.</li> <li>• Demonstrating written communication skills within the media industry as it relates to Digital Printing.</li> <li>• Utilizing computer applications to manage media as it relates to</li> </ul>

	<p>Digital Printing.</p> <ul style="list-style-type: none"> <li>• Applying knowledge of data capture and manipulation as it relates to Digital Printing.</li> </ul> <p><b>Digital Printing I:</b> This course will prepare the student to integrate pre-production, production, post-production, deliver/distribute, quality assurance, and presentation phases of Digital Printing.</p> <p><b>Digital Printing II:</b> This course will be the development of a portfolio with the following projects:</p> <ul style="list-style-type: none"> <li>• Classroom</li> <li>• School</li> <li>• Community</li> <li>• Business &amp; Industry</li> </ul> <p>Related to Digital Printing.</p> <p><b>Work-based Learning:</b> Students have the opportunity to participate in either a Digital Printing 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-digital-printing-10020020.pdf">http://www.azed.gov/career-technical-education/files/2011/11/technical-standards-digital-printing-10020020.pdf</a></p>
<p><b>Specialized Equipment</b></p>	<ul style="list-style-type: none"> <li>• High-end Computers <ul style="list-style-type: none"> <li>○ 64-bit Intel® or AMD® multi-core processor</li> <li>○ 2 GB of RAM (8GB recommended)</li> </ul> </li> <li>• Software <ul style="list-style-type: none"> <li>○ Adobe InDesign</li> <li>○ Adobe Illustrator</li> <li>○ Adobe Photoshop</li> <li>○ Color Management</li> <li>○ MOS Access, Excel, PowerPoint and Word</li> </ul> </li> <li>• Digital Printing Press</li> <li>• Offset Printing Press</li> <li>• Screen Printing Machine</li> <li>• Large/Wide Format Printer(s)</li> <li>• Paper Cutter</li> <li>• Dye Cutter</li> <li>• Folders, staplers and collators</li> <li>• Vinyl Cutter</li> <li>• Specialized paper, toner, ink</li> <li>• Exposure for screens</li> <li>• Due sub printer</li> <li>• Shrink wrap distribution</li> <li>• 3D printer</li> <li>• Plate Imager</li> <li>• Heat Press</li> <li>• DTG (Direct to garment printer)</li> </ul>

<b>Industry Recognized Certifications</b>	<b>Must offer one or more of the following certifications:</b> <ul style="list-style-type: none"> <li>• Adobe Certified Associate in InDesign</li> <li>• Adobe Certified Associate in Illustrator</li> <li>• Adobe Certified Associate in Photoshop</li> <li>• PrintED <ul style="list-style-type: none"> <li>○ Digital File Preparation/Digital File Output</li> <li>○ Offset Press Operations/Bindery &amp; Finishing</li> <li>○ Screen Printing</li> </ul> </li> <li>• Idealliance</li> </ul>
<b>CTE End-Of- Program (EOP) Technical Skill Assessment (TSA) Y/N</b>	Yes
<b>Current EOP TSA Pass Score</b>	60%
<b>Participation in JTED Program Qualifies Students for These Employment Opportunities</b>	Digital Press Operator Fulfillment Specialist Graphic Designer Print/Reprographic Specialist Screen Print Production Specialist

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## 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>	<ul style="list-style-type: none"> <li>• Adobe Certified Associate in InDesign</li> <li>• Adobe Certified Associate in Illustrator</li> <li>• Adobe Certified Associate in Photoshop</li> <li>• PrintED             <ul style="list-style-type: none"> <li>○ Digital File Preparation/Digital File Output</li> <li>○ Offset Press Operations/Bindery &amp; Finishing</li> <li>○ Screen Printing</li> </ul> </li> <li>• Idealliance</li> </ul>
<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><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.          Project-based learning and Laboratory/Simulation Projects/School-based enterprises for WBL are key components to this program.</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.          They need to purchase equipment and software which needs to remain up-to-date and current and they need to purchase instructional materials and resources.</p> <ul style="list-style-type: none"> <li>• High-end Computers             <ul style="list-style-type: none"> <li>○ 64-bit Intel® or AMD® multi-core processor</li> <li>○ 2 GB of RAM (8GB recommended)</li> </ul> </li> <li>• Software             <ul style="list-style-type: none"> <li>○ Adobe InDesign</li> <li>○ Adobe Illustrator</li> <li>○ Adobe Photoshop</li> <li>○ Color Management</li> <li>○ MOS Access, Excel, PowerPoint and Word</li> </ul> </li> <li>• Digital Printing Press</li> <li>• Offset Printing Press</li> <li>• Screen Printing Machine</li> <li>• Large/Wide Format Printer(s)</li> <li>• Paper Cutter</li> <li>• Dye Cutter</li> <li>• Folders, staplers and collators</li> <li>• Vinyl Cutter</li> <li>• Specialized paper, toner, ink</li> <li>• Exposure for screens</li> <li>• Due sub printer</li> <li>• Shrink wrap distribution</li> <li>• 3D printer</li> </ul>

	<ul style="list-style-type: none"> <li>• Plate Imager</li> <li>• Heat Press</li> <li>• DTG (Direct to garment printer)</li> </ul>
<p><b>Specialized Equipment Exceeds Cost of Standard Course</b>  15-391(3)(g) Page 1/35-36 and  15-391(5)(c) Page 2/7-9</p>	<ul style="list-style-type: none"> <li>• High-end Computers <ul style="list-style-type: none"> <li>○ 64-bit Intel® or AMD® multi-core processor</li> <li>○ 2 GB of RAM (8GB recommended)</li> </ul> </li> <li>• Software <ul style="list-style-type: none"> <li>○ Adobe InDesign</li> <li>○ Adobe Illustrator</li> <li>○ Adobe Photoshop</li> <li>○ Color Management</li> <li>○ MOS Access, Excel, PowerPoint and Word</li> </ul> </li> <li>• Digital Printing Press</li> <li>• Offset Printing Press</li> <li>• Screen Printing Machine</li> <li>• Large/Wide Format Printer(s)</li> <li>• Paper Cutter</li> <li>• Dye Cutter</li> <li>• Folders, staplers and collators</li> <li>• Vinyl Cutter</li> <li>• Specialized paper, toner, ink</li> <li>• Exposure for screens</li> <li>• Due sub printer</li> <li>• Shrink wrap distribution</li> <li>• 3D printer</li> <li>• Plate Imager</li> <li>• Heat Press</li> <li>• DTG (Direct to garment printer)</li> </ul>
<p><b>Alignment through Curriculum, Instructional Model and Courses Sequence</b> 15-391(5)(e)  Page 2/15-18</p>	<p>Yes.  The course sequence for Digital Printing consists of 3 Carnegie Units of Instruction.</p>
<p><b>Defined Pathway to Career and Postsecondary Ed in Specific Vocation or Industry</b> 15-391(5)(f)  Page 2/19-21</p>	<p>Yes.  Adobe Certified Associate in InDesign, Adobe Certified Associate in Illustrator, Adobe Certified Associate in Photoshop and PrintEd, Digital File Preparation/Digital File Output or Offset Press Operations/Bindery &amp; Finishing or Screen Printing. There are also Postsecondary opportunities for Certificates, AA and BS degrees.</p>
<p><b>Fills High Need Vocation or Industry as Determined by CTE/ADE</b> 15-391(5)(j)  Page 2/30-31</p>	<p>Yes.  The Digital Printing program is ranked 45<sup>th</sup> on the 2016 CTE Program List. Ranking is based on “high demand, high wage, and high skill” occupations as determined by the AZ 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</b> 15-391(5)(k) Page 2/32-35</p>	<p><b>Programs must offer one or more of the following certifications:</b></p> <ul style="list-style-type: none"> <li>• Adobe Certified Associate in InDesign</li> <li>• Adobe Certified Associate in Illustrator</li> <li>• Adobe Certified Associate in Photoshop</li> <li>• PrintED <ul style="list-style-type: none"> <li>○ Digital File Preparation/Digital File Output</li> <li>○ Offset Press Operations/Bindery &amp; Finishing</li> <li>○ Screen Printing</li> </ul> </li> <li>• Idealliance</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>	<ul style="list-style-type: none"> <li>• Adobe Certified Associate in InDesign</li> <li>• Adobe Certified Associate in Illustrator</li> <li>• Adobe Certified Associate in Photoshop</li> <li>• PrintED <ul style="list-style-type: none"> <li>○ Digital File Preparation/Digital File Output</li> <li>○ Offset Press Operations/Bindery &amp; Finishing</li> <li>○ Screen Printing</li> </ul> </li> <li>• Idealliance</li> </ul>
<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>Certifications are available.</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.</b> 15-391(5)(m) Page 2/44-45 and 3/1-3</p>	<p>Yes. Supplemental resources such as Lynda.com and supplemental textbooks.</p>
<p><b>Industry provided financial or technical support.</b> 15-391(5)(n) Page 3/4-8</p>	<p>Business &amp; Industry professionals serve on the Arizona Business and Marketing Education Advisory Council. Business &amp; Industry professionals serve on Technical Standards Development and Validation Committees. Business &amp; Industry form Local Advisory Boards. Business &amp; Industry professionals serve as Judges for SkillsUSA. Business &amp; Industry serve as resources for classroom instructors as well as Guest Speakers.</p>

**Demonstrated need for extra funding in order to provide JTED program 15-391(5)(o) Page 3/9-11**

Yes.  
Equipment, supplemental resources and supplemental textbooks.

- High-end Computers
  - 64-bit Intel® or AMD® multi-core processor
  - 2 GB of RAM (8GB recommended)
- Software
  - Adobe InDesign
  - Adobe Illustrator
  - Adobe Photoshop
  - Color Management
  - MOS Access, Excel, PowerPoint and Word
- Digital Printing Press
- Offset Printing Press
- Screen Printing Machine
- Large/Wide Format Printer(s)
- Paper Cutter
- Dye Cutter
- Folders, staplers and collators
- Vinyl Cutter
- Specialized paper, toner, ink
- Exposure for screens
- Due sub printer
- Shrink wrap distribution
- 3D printer
- Plate Imager
- Heat Press
- DTG (Direct to garment printer)

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