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| Program Name | Aircraft Mechanics |
| Program CIP Code | 47.0600.50 |
| Program Description and Coherent Sequence | <p>The Aircraft Mechanics program is designed to prepare individuals for jobs as technicians in the aerospace fields. The program is comprised of a core curriculum along with Air Transportation I and Air Transportation II. The occupational standards for each are in alignment with FAA Airframe and Power Plant technology, which includes the maintenance and repair of aircraft mechanical systems including turbine and reciprocating engines, aircraft finishes, sheet metal, welding, landing gears, hydraulics, propellers. The program is designed and delivered as a coherent sequence of experiences using technical instruction, academic foundations, experiential learning, work-based learning, and leadership and personal development through the Career and Technical Student Organization, SkillsUSA. This program trains for the FAA Airframe and Power Plant (A&P) certificate.</p> <p>Transportation Technologies Core Curriculum: This program prepares the student to apply technical knowledge and skills in the safety, adjustment, maintenance, part replacement, and use of tools, equipment and machines. The course includes developing career plans, preparing for employment, demonstrating oral and written communication skills, understanding financial operations of small businesses, identifying characteristics of successful leaders in the work place and participation in leadership development activities.</p> <p>Aircraft Mechanics I: This course provides beginning level knowledge and skills that have been identified as preparation for the FAA Airframe and Power Plant (A&P) certificate. Further education and training may be required to be able to master the knowledge and skills required for full A&P certification.</p> <p>Aircraft Mechanics II: This course provides an advancing level of knowledge and skills that have been identified as preparation for the FAA Airframe and Power Plant (A&P) Certificate. Further education and training may be required to be able to master the knowledge and skills required for full A&P certification.</p> <p>Work-based Learning: Students have the opportunity to participate in either an Aircraft Mechanics Cooperative Education experience or an Internship.</p> |
| Industry Validated Standards | http://www.azed.gov/career-technical-education/files/2013/10/technical-standards-aircraft-mechanics-47060050.pdf |

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| Specialized Equipment | <ul style="list-style-type: none"> • Airplane engines • Specialized aircraft tools • Specialized aircraft equipment • Electronic diagnostic equipment |
| Industry Recognized Certifications | <ul style="list-style-type: none"> • FAA Airframe Mechanic • FAA Powerplant Mechanic |
| CTE End-Of- Program (EOP) Technical Skill Assessment (TSA) Y/N | Y |
| Current EOP TSA Pass Score | 60% |
| Participation in JTED Program Qualifies Students for These Employment Opportunities | Airframe Technician Powerplant Technician |

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SB1525 JTED Course and Program Requirements

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| <p>Requires students obtain passing score of 60% on assessment 15-391(3)(b) Page 1/20-24 & 15-391(5)(b) Page 2/1-6</p> | <p>Yes 60% -and- Airframe and Power plant test, aviation maintenance test 70% passing score. Oral and practical test after written test passed.</p> |
| <p>Not a Course Required under Minimum Course of Study including Honors 15-391(3)(d) Page 1/27-29</p> | <p>No</p> |
| <p>Majority of Instructional Time in Lab / Field / Work Based Learning Environment 15-391 (3)(e) Page 1/30-32 and Requires CTSO Participation 15-391(5)(d) Page 2/10-13</p> | <p>Yes, the course work is over 50% in laboratory hours. Yes this program requires participation in SkillsUSA. There is a national contest for this program. The contest scope is consistent with the airframe and power plant mechanics certification guide published by the Federal Aviation Administration.</p> |
| <p>Demonstrated Need for Extra Funding for a course 15-391(3)(f) Page 1/33-34</p> | <p>Yes, students must be trained by and Federal Aviation Administration (FAA) approved instructor. The training requires special equipment for airplane repair based on FAA guidelines.</p> |
| <p>Specialized Equipment Exceeds Cost of Standard Course 15-391(3)(g) Page 1/35-36 and 15-391(5)(c) Page 2/7-9</p> | <p>Yes, airplane engines, specialized aircraft tools and equipment, electronic diagnostic equipment</p> |
| <p>Alignment through Curriculum, Instructional Model and Courses Sequence 15-391(5)(e) Page 2/15-18</p> | <p>Yes, follows state program standards that are aligned with federal standards.</p> |
| <p>Defined Pathway to Career and Postsecondary Ed in Specific Vocation or Industry 15-391(5)(f) Page 2/19-21</p> | <p>Yes, students may continue education at a post-secondary institution. If 18 years of age a student who completes the program may test for the FAA certification.</p> |
| <p>Fills High Need Vocation or Industry as Determined by CTE/ADE 15-391(5)(j) Page 2/30-31</p> | <p>Yes The Aircraft Mechanics program is ranked 14 on the 2016 CTE Program List. Ranking is based on “high demand, high wage, high skill” occupations as determined by Arizona Labor Market Data from the AZ Office of Employment and Population Statistics.</p> |

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| <p>Requires a Single or Stackable Credential or a Skill that allows a student to obtain work 15-391(5)(k) Page 2/32-35</p> | <ul style="list-style-type: none"> • FAA Airframe Mechanic • FAA Powerplant Mechanic |
| <p>Leads to certification or licensure verified by that vocation or industry that qualifies student for employment which the student would not otherwise qualify. 15-391(5)(l) Page 2/36-39</p> | <ul style="list-style-type: none"> • FAA Airframe Mechanic • FAA Powerplant Mechanic |
| <p>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. 15-391(5)(l) Page 2/39-43</p> | N/A |
| <p>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</p> | Yes, This specialized program requires specific tools and equipment in order to meet the FAA guidelines and prepare students for the FAA testing for certification in Airframe and Powerplant maintenance. |
| <p>Industry provided financial or technical support. 15-391(5)(n) Page 3/4-8</p> | Yes, industry has donated planes and equipment, and serves as advisory board members. |
| <p>Demonstrated need for extra funding in order to provide JTED program 15-391(5)(o) Page 3/9-11</p> | Yes, This specialized program requires specific tools and equipment in order to meet the FAA guidelines and prepare students for the FAA testing for certification. |

| Eligibility | | Yes | No |
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| JTED | The Aircraft Mechanics program meets the requirements for JTED compliance and eligibility | x | |
| CTE Federal Perkins and State Priority | The Aircraft Mechanics program meets the requirements for Perkins and is eligible to generate CTE State Priority funding . | x | |