

**PROGRAM:**           **Aircraft Mechanics**

**PROGRAM  
CIP CODE:**       **47.0600.50**

**DESCRIPTION:**   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 and 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.

**RECOMMENDED PROGRAM SEQUENCE OF COURSES:**

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

47.0600.10   **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. (.10 CIP Code is used for the core curriculum course if the course is a shared core curriculum course for any other 47.0600 program, i.e. Automotive Technologies, Automotive Collision Repair, and/or Diesel Engine Repair.)

**-or-**

47.0600.14 **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. (.14 CIP Code is used for the core curriculum course if the course is the core curriculum course for 47.0600.50 Aircraft Mechanics only.)

**-and-**

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

**-and-**

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

**And program may elect to add:**

47.0600.75 **Transportation Technologies - Internship:** This course provides CTE students an opportunity to engage in learning through participation in a structured work experience that can either be paid or unpaid and does not necessarily require classroom instruction that involves the application of previously developed Transportation Technologies knowledge and skills.

**-or-**

47.0600.80 **Transportation Technologies - Cooperative Education:** This course utilizes cooperative education methodology to combine school-based and supervised work-based learning experiences related to the standards identified for the Transportation Technologies program.

## TEACHER CERTIFICATION REQUIREMENTS FOR THE AIRCRAFT MECHANICS PROGRAM

CAREER PREPARATION: The instructor must be CTE certified according to the following table

<b>Aircraft Mechanics</b>	<b>CERTIFICATES</b>
	Types: PCTI, PCTIEP, SCTI, SCTIEP
<b>Note:</b>	
<ul style="list-style-type: none"> <li>▪ <b>Transportation Technologies, 47.0600.70</b> may be a part of the sequence and the teacher must hold a Cooperative Education Endorsement (CEN).</li> <li>▪ Teacher/Coordinator <b>47.0600.75</b> is not required to have a Cooperative Education Endorsement (CEN).</li> <li>▪ Teacher/Coordinator <b>47.0600.80</b> is required to have a Cooperative Education Endorsement (CEN).</li> </ul>	

## CERTIFICATE ABBREVIATIONS FOR THE AIRCRAFT MECHANICS PROGRAM

Certificate Types	
<b>PCTI</b>	Provisional Career and Technical Education Industrial Technology
<b>PCTIEP</b>	Provisional Career and Technical Education Industrial and Emerging Technologies
<b>SCTI</b>	Standard Career and Technical Education Industrial Technology
<b>SCTIEP</b>	Standard Career and Technical Education Industrial and Emerging Technologies