

**Florida Department of Education  
Student Performance Standards**

**Program Title: Aviation Powerplant Mechanics**  
**PSAV Number: T640400**

**Course Number: AMT0705**  
**Occupational Completion Point: A**  
**Aviation Maintenance General Technician – 450 Hours – SOC Code 49-3011**

**Course Description:**

The Aviation Maintenance General Technician course prepares students for entry into the aviation industry. Students explore career opportunities and requirements of a professional aviation mechanic. Students study basic electricity, aircraft drawing, weight, balance, fluid lines, fittings, materials, processes, operations, services, cleaning, corrosion-control, math, forms, records, basic physics, maintenance publications, communication, and employability skills.

**CTE Standards and Benchmarks**

01.0	Perform basic aircraft drawing skills--The student will be able to:
02.0	Demonstrate aircraft weight and balance skills--The student will be able to:
03.0	Perform ground operations and servicing duties--The student will be able to:
04.0	Demonstrate mathematical skills--The student will be able to:
05.0	Maintain forms and records--The student will be able to:
06.0	Apply principles of basic physics--The student will be able to:
07.0	Demonstrate the use of maintenance publications--The student will be able to:
08.0	Demonstrate appropriate communication skills--The student will be able to:
09.0	Demonstrate employability skills as an Aviation Maintenance General Technician--The student will be able to:
10.0	Maintain aircraft fluid lines and fittings--The student will be able to:
11.0	Perform aircraft materials and processes skills--The student will be able to:
12.0	Perform cleaning and corrosion-control operations--The student will be able to:
13.0	Perform basic electricity skills--The student will be able to:
14.0	Interpret mechanic privileges and limitations--The student will be able to:

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**Course Number: AMT0775**

**Occupational Completion Point: B (1 of 2)**

**Aviation Maintenance Powerplant Technician 1 – 450 Hours – SOC Code 49-3011**

**Course Description:**

The Aviation Maintenance Powerplant Technician 1 course is designed to build on the skills and knowledge students learned in the Aviation Maintenance General Technician course. Students explore career opportunities and requirements of a professional aviation mechanic. Students study reciprocating engines, turbine engines, inspection, instruments, fire-protection, electrical, lubrication, ignition, and starting systems.

<b>CTE Standards and Benchmarks</b>	
15.0	Perform basic reciprocating engine skills--The student will be able to:
16.0	Perform basic turbine engine skills--The student will be able to:
17.0	Perform engine inspection--The student will be able to:
18.0	Maintain engine instrument systems--The student will be able to:
19.0	Maintain engine fire-protection systems--The student will be able to:
20.0	Maintain engine electrical systems--The student will be able to:
21.0	Maintain lubrication systems--The student will be able to:
22.0	Maintain ignition and starting systems--The student will be able to:

**Course Number: AMT0776**

**Occupational Completion Point: B (2 of 2)**

**Aviation Maintenance Powerplant Technician 2 – 450 Hours – SOC Code 49-3011**

**Course Description:**

The Aviation Maintenance Powerplant Technician 2 course is designed to build on the skills and knowledge students learned in the Aviation Maintenance Powerplant Technician 1 course. Students explore career opportunities and requirements of a professional aviation mechanic. Students study fuel, metering, induction, airflow, cooling, exhaust, reverser, propellers, inductors, auxiliary power units, FAA Powerplant Rating licensing, employability skills, and entrepreneurship.

**CTE Standards and Benchmarks**

23.0	Maintain fuel metering systems--The student will be able to:
24.0	Maintain engine fuel systems--The student will be able to:
25.0	Maintain induction and engine airflow systems --The student will be able to:
26.0	Maintain engine cooling systems--The student will be able to:
27.0	Maintain engine exhaust and reverser systems--The student will be able to:
28.0	Maintain aircraft propellers--The student will be able to:
29.0	Maintain unducted fans-The student will be able to:
30.0	Maintain auxiliary power units-The student will be able to:
31.0	Demonstrate knowledge of Federal Aviation Administration Powerplant licensing requirements--The student will be able to:
32.0	Demonstrate employability skills for an Aviation Maintenance Powerplant Technician (AMT) with an FAA Powerplant rating--The student will be able to:
33.0	Demonstrate an understanding of entrepreneurship related to opportunities in Aviation Powerplant Maintenance occupations--The student will be able to: