

POWERPLANT MAINTENANCE TECHNICIAN CERTIFICATE OF ACHIEVEMENT

This certificate is designed to prepare students to qualify for the Powerplant Certificate issued by the Federal Aviation Administration (FAA), which enables the holder to maintain and repair aircrafts ranging from small aircraft used in general aviation to jets utilized by commercial airlines. The written examinations are administered by the FAA at computer testing centers.

Code	Title	Units
Required Courses		
AERO 050	General/Calculations and Basic Electricity Airframe and Powerplant Technologies	5
AERO 050L	General Laboratory/Calculations And Basic Electricity Airframe and Powerplant Technologies	2
AERO 051	General/Materials and Servicing Airframe and Powerplant Technologies	5
AERO 051L	General Laboratory/Materials and Servicing Airframe and Powerplant Technologies	2
AERO 054	Powerplant Maintenance - Reciprocating Engine Overhaul	6
AERO 054L	Powerplant Maintenance Laboratory - Reciprocating Engine Overhaul	5
AERO 055	Powerplant Maintenance - Accessory Overhaul	6
AERO 055L	Powerplant Maintenance Laboratory - Accessory Overhaul	5
Total Units		36

Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

This is a Gainful Employment Program

Program Learning Outcomes

At the completion of this program, students will be able to:

- Apply general calculations and basic electricity of aviation as required by the Federal Aviation Administration (FAA)
- Apply general materials and servicing of aviation as required by the FAA
- Read and interpret powerplant manuals, charts, and task sheets
- Perform required inspections, maintenance, and repairs on aircraft powerplants
- Evaluate and troubleshoot aircraft powerplant systems and components
- Use practical application skills to overhaul aircraft powerplants
- Read and interpret powerplant overhaul manuals to measure and determine the serviceability of parts
- Write descriptive and concise discrepancy reports