

AVIATION INSTITUTE
Aircraft Powerplant Mechanics Vocational Certificate Major Code 5273

Program Description

The Powerplant Maintenance certificate program leads to a Federal Aviation Administration (FAA) Powerplant license. The course of study complies with FAR 147 and the program is FAA certified. A completion of the program is contingent upon student satisfying the requirements of the test of Adult Basic Education (TABE) in math, reading and language. The TABE test, if required, must be taken within six weeks of enrollment into the general portion of the program. These courses are offered in 400 hour blocks and require an interview with the Aviation Admissions Coordinator or the Aviation Maintenance Associate Dean prior to enrollment.

Related Programs

Professional Pilot Technology Associate in Science Major Code 2107
 Air Traffic Control Associate in Applied Science Major Code A039
 Aviation Operations Associate in Science Major Code 2105 (2105E)‡
 Airport Operations Management Associate in Science Major Code 21051‡
 Airport Management Certificate Major Code 6304

Aviation Maintenance Management Associate in Science Major Code 2204
 Aviation Maintenance Management Associate in Applied Science Major Code A005
 Aircraft Airframe Mechanics Vocational Certificate Major Code 5272
 Avionics Vocational Certificate Major Code 5299

‡ Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

Entrance Requirements

- HS Diploma or GED
 - TABE‡
- ‡ The TABE test, or Test of Adult Basic Education, is used to demonstrate the level of basic education in English and Math require by the program. The TABE test must be (first) taken prior to the end of the sixth week of the program and student must successfully complete the TABE test in order to graduate. See the College catalog for more details.

BLOCK 1 (GENERAL)

AMT 0070C	Applied Mathematics	21.00
AMT 0090C	Basic Physics	26.25
AMT 0010C	Aircraft Drawings	21.00
AMT 0050C	Ground Operations and Servicing	31.50
AMT 0040C	Materials and Processes	84.00
AMT 0030C	Fluid Lines and Fittings	26.25
AMT 0081C	FARs, Forms, Privileges	42.00
AMT 0020C	Weight and Balance	27.25
AMT 0060C	Corrosion Control	26.25
AMT 0001C	Basic Electricity	94.50
Total Clock Hours		400

BLOCK 2 (POWERPLANT I)

AMT 0300C	Reciprocating Engines	152.25
AMT 0312C	Turbine Engines	147
AMT 0400C	Engine Instrument Sys.	31.50
AMT 0420C	Engine Electrical and APUs	69.25
Total Clock Hours		400

BLOCK 3 (POWERPLANT II)

AMT 0460C	Induction Systems	26.25
AMT 0450C	Engine Fuel Systems	21
AMT 0451C	Fuel Metering Systems	63
AMT 0440C	Ignition Systems	84
AMT 0435C	Lubrication Systems	42
AMT 0475C	Engine Cooling and Exhaust Systems	26.25
AMT 0410C	Engine Fire Protection	15.75
AMT 0490C	Propellers and Unducted Fans	89.25
AMT 0320C	Engine Inspection	32.50
Total Clock Hour		400
Total Program Clock Hours		1,200

It is strongly recommended that students see an academic advisor or counselor every term.