

AVIATION MAINTENANCE TECH (AMT)

AMT 0708 Aviation Maintenance Technology General 1

Clock Hours: 225

Lab Fee: Yes

This course introduces mathematics, physics, human factors, ground handling and servicing, federal aviation regulations, publications and records, introduces structural materials and processes, aircraft hardware and precision measuring instruments, fluid lines and fittings, and blueprints and drawings. The course is part of a six course sequence to prepare individuals to take the FAA Airframe Certification exam.

AMT 0709 Aviation Maintenance Technology General 2

Clock Hours: 225

Prerequisites: AMT 0708 with a grade of "C" or higher

Lab Fee: Yes

This course introduces basic electricity, direct current (DC) electrical circuits, aircraft battery service and inspection, alternating current (AC) electrical circuits and solid-state circuits, non-destructive inspection concepts and techniques, aircraft cleaning and corrosion control, and weight and balance.

AMT 0712 Aviation Maintenance Technology Airframe 1

Clock Hours: 225

Prerequisites: AMT 0708 and AMT 0709 - both courses with a grade of "C" or higher

Lab Fee: Yes

This course introduces the skills necessary for aircraft structural assembly and rigging and provides an understanding of rotor-craft fundamentals, aircraft non-metallics, and aircraft electrical systems.

AMT 0713 Aviation Maintenance Technology Airframe 2

Clock Hours: 225

Prerequisites: AMT 0708, AMT 0709, and AMT 0712 - all courses with a grade of "C" or higher

Lab Fee: Yes

This course introduces skills and knowledge necessary to understand, maintain, and repair aircraft finishes, fabric covering, and sheet metal structures. The course also provides an introduction to aircraft welding techniques.

AMT 0714 Aviation Maintenance Technology Airframe 3

Clock Hours: 225

Prerequisites: AMT 0708, AMT 0709, AMT 0712, and AMT 0713 - all courses with a grade of "C" or higher

Lab Fee: Yes

This course introduces skills and knowledge necessary to understand, maintain, and repair aircraft hydraulics and pneumatics, landing gear systems, and aircraft environmental systems.

AMT 0717 Aviation Maintenance Technology Airframe 4

Clock Hours: 225

Prerequisites: AMT 0708, AMT 0709, AMT 0712, AMT 0713, and AMT 0714 - all courses with a grade of "C" or higher

Lab Fee: Yes

This course introduces the skills and knowledge necessary to inspect and maintain ice and rain control, fire detection and extinguishing systems, instrument, communications, light signals, and runway lighting systems, water and waste systems, and conduct aircraft inspections.

AMT 0821 Aviation Maintenance Technology Powerplant 1

Clock Hours: 225

Prerequisites: AMT 0708 and AMT 0709 - both courses with a grade of "C" or higher

Lab Fee: Yes

Corequisite AMT 0822. This course introduces the fundamentals of reciprocating engines, their ignition systems, fuel, fuel metering, and induction systems. The course also covers reciprocating engine, exhaust, cooling, lubricating, propellers, and propeller governing systems.

AMT 0822 Aviation Maintenance Technology Powerplant 2

Clock Hours: 225

Prerequisites: AMT 0708 and AMT 0709 - both courses with a grade of "C" or higher

Corequisites: AMT 0821

Lab Fee: Yes

This course introduces reciprocating engine removal, overhaul, installation, and operation. The course also covers reciprocating engine inspection, troubleshooting, and maintenance.

AMT 0823 Aviation Maintenance Technology Powerplant 3

Clock Hours: 225

Prerequisites: AMT 0708, AMT 0709, AMT 0821, and AMT 0822 - all courses with a grade of "C" or higher

Corequisites: AMT 0824

Lab Fee: Yes

This course introduces the fundamentals of turbine engines, engine fire protection, and engine instrument systems. The course also covers turbine engine lubrication, air, exhaust, reverser, ignition and starting, fuel metering systems, and powerplant electrical systems.

AMT 0824 Aviation Maintenance Technology Powerplant 4

Clock Hours: 225

Prerequisites: AMT 0822 with a grade of "C" or higher

Corequisites: AMT 0823

Lab Fee: Yes

This course introduces turbine engine removal, overhaul, installation, and operation. The course also covers turbine engine inspection, troubleshooting, and maintenance.