AIRFRAME & POWERPLANT, CERTIFICATE OF ACHIEVEMENT

Banner Code: 1_CF_AMAP
Financial Aid Eligible

This program provides students with the technical skills and systems analysis necessary for entry-level positions as Airframe and Powerplant Certificated Mechanics in the aviation industry, such as airframe inspection, powerplant inspection, maintenance, and return-to-flight status of all types of U.S. Certificated aircraft.

Trained technicians are also successful in related fields of aircraft manufacturing, electronics, hydraulics, pneumatics, welding, sheet metal, quality control, civil and military defense. Additionally, students who have followed this program may earn an engineering degree at any one of several four-year institutions.

Program Outcomes

1. Have the necessary skills and training for proficiency in taking written, oral and practical exams for Airframe & Powerplant certification which may be required for employment.
2. Be able to improve or develop additional proficiencies required for professional growth or advancement in their current employment. All qualification training and tests are prescribed and follow the guide of the Federal Aviation.

Review Graduation Requirements (https://catalog.cccd.edu/orange-coast/graduation-requirements/certificates/#achievementtext).

Course	Title	Units
Required Courses		
AMT A150	General Maintenance Records - FAA	4
AMT A151	General Electricity - FAA	3
AMT A152	General Airframe & Powerplant Fuel Systems - FAA	2
AMT A153	General Materials, Processes & Welding - FAA	3
AMT A154	General Weight & Balance, Math & Physics - FAA	3
AMT A155	General Blueprint Reading & Drafting - FAA	2
AMT A160	Airframe & Powerplant Electricity - FAA	6
AMT A161	Airframe Sheet Metal & Composite Structural Repair - FAA	5.5
AMT A162	Airframe Assembly & Rigging, Pneumatics & Environmental Control Systems - FAA	3
AMT A163	Airframe Hydraulics and Landing Gear - FAA	4.5
AMT A170	Powerplant Reciprocating Engines FAA	6
AMT A171	Powerplant Fuel Metering, Exhaust & Induction Systems FAA	4
AMT A172	Powerplant Propeller and Lubricating Systems FAA	4
AMT A173	Powerplant Gas Turbine Engines - FAA	6
AMT A174	Powerplant Ignition Systems - FAA	2.5
AMT A180	Airframe and Powerplant Instrumentation FAA	2.5
AMT A181	Airframe Communication and Navigation Systems - FAA	2
Total Units		**63**

Program approved by the Federal Aviation Administration (FAA).

Completion of the above enables the student to take the FAA Airframe & Powerplant written examinations.

Program Sequence

These sequences at Orange Coast College are curriculum maps for students to finish all requirements for the certificate. There may be advisories, prerequisites, or time requirements that students need to consider before following these maps. **Students are advised to meet with an Orange Coast College Counselor for alternate sequencing.**

Some courses in this program may be offered once per academic year.

Course	Title	Units
Year 1		
Semester 1		
AMT A150	General Maintenance Records - FAA	4
AMT A151	General Electricity - FAA	3
AMT A152	General Airframe & Powerplant Fuel Systems - FAA	2
AMT A153	General Materials, Processes & Welding - FAA	3
AMT A154	General Weight & Balance, Math & Physics - FAA	3
	Units	**15**
Semester 2		
AMT A160	Airframe & Powerplant Electricity - FAA	6
AMT A161	Airframe Sheet Metal & Composite Structural Repair - FAA	5.5
AMT A162	Airframe Assembly & Rigging, Pneumatics & Environmental Control Systems - FAA	3
AMT A181	Airframe Communication and Navigation Systems - FAA	2
	Units	**16.5**
Intersession		
AMT A180	Airframe and Powerplant Instrumentation FAA	2.5
AMT A155	General Blueprint Reading & Drafting - FAA	2
	Units	**4.5**
Summer		
AMT A163	Airframe Hydraulics and Landing Gear - FAA	4.5
	Units	**4.5**
Year 2		
Semester 1		
AMT A174	Powerplant Ignition Systems - FAA	2.5
AMT A170	Powerplant Reciprocating Engines FAA	6

Course	Title	Units
AMT A171	Powerplant Fuel Metering, Exhaust & Induction Systems FAA	4
	Units	**12.5**
Semester 2		
AMT A172	Powerplant Propeller and Lubricating Systems FAA	4
AMT A173	Powerplant Gas Turbine Engines - FAA	6
	Units	**10**
	Total Units	**63**