

# POWERPLANT, CERTIFICATE OF ACHIEVEMENT

**Control Number:** 22394

**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. This certificate would enable a student to achieve employment in local powerplant and propeller overhaul facilities and repair stations.

## Program Outcomes

1. Have the necessary skills and training for proficiency in taking written, oral and practical exams for 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.

## Certificate of Achievement Requirements

The Certificate of Achievement is a state-approved career program that requires a minimum of eight units and is designed to prepare the graduate to enter a particular field of employment. In order to be awarded a certificate, students are required to obtain a grade of "C" or better in all program-required courses. Grades of "CR" or "P" will be accepted whereas "CR" or "P" meets the equivalency of a "C" or better. At least 3 units in an advanced course from the certificate must be completed at OCC at the department's discretion. Certificates of Achievement are not automatically awarded. A petition must be filed in Enrollment Services or online at the beginning of the semester in which the student will be completing their final requirements. The petitioning periods are listed in the Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/>) section of this catalog. Check with a counselor to determine the requirements for completion.

A list of certificate programs can be found in the Programs A-Z (<https://catalog.cccd.edu/orange-coast/programs-study/>) section of this catalog.

Course	Title	Units
<b>Required Courses</b>		
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 A170	Powerplant Reciprocating Engines FAA	6
AMT A171	Powerplant Fuel Metering, Exhaust & Induction Systems FAA	4

Course	Title	Units
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
<b>Total Units</b>		<b>42</b>

Program approved by the Federal Aviation Administration (FAA).

Completion of the above enables the student to take the FAA Powerplant written examination.

## 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
<b>Year 1</b>		
<b>Semester 1</b>		
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
<b>Units</b>		<b>15</b>
<b>Semester 2</b>		
AMT A174	Powerplant Ignition Systems - FAA	2.5
AMT A170	Powerplant Reciprocating Engines FAA	6
AMT A171	Powerplant Fuel Metering, Exhaust & Induction Systems FAA	4
<b>Units</b>		<b>12.5</b>
<b>Intersession</b>		
AMT A155	General Blueprint Reading & Drafting - FAA	2
AMT A180	Airframe and Powerplant Instrumentation FAA	2.5
<b>Units</b>		<b>4.5</b>
<b>Year 2</b>		
<b>Semester 1</b>		
AMT A172	Powerplant Propeller and Lubricating Systems FAA	4
AMT A173	Powerplant Gas Turbine Engines - FAA	6
<b>Units</b>		<b>10</b>
<b>Total Units</b>		<b>42</b>