



## **Powerplant Maintenance Technology C.A.**

Career Community: Transportation

Curriculum Code: 1035

Effective: Fall 2024 – Summer 2029

### **Description**

This certificate of achievement enables a non-licensed individual to expand their knowledge of powerplant maintenance practices used to maintain aircraft engines in accordance with the Title 14 Code of Federal Aviation Regulations. While enrolled in this program, students will learn the basic science and technical knowledge necessary to repair and maintain modern aerospace vehicle powerplants. Graduates will have demonstrated technical abilities in the following areas: reciprocating and turbine engine overhaul and repair, ignition and fuel system maintenance and repair, engine electrical system diagnosis and repair, and engine inspections. Completion of this certificate may be applied to the Airframe and Powerplant License provided the student meets the requirements of the Federal Aviation Regulation Part 147.

### **Milestone**

Completion of AVPP 241 and AVPP 259 with a 2.0 or higher is a key component for success in this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

### **Additional Information**

A student must earn a minimum grade of 2.0 in all courses.

### **Contact Information**

For further information, including career options, course substitutions and waivers, etc., contact the Aviation Technology Program at the Mason-Jewett Field, 661 Aviation Drive, Mason, telephone number 517-483-1406.

### **Program of Study Required Courses**

Course Code	Course Title	Credit / Billing Hours
AVAF 212	Aircraft Electrical II	4 / 5.75
AVPP 241	Reciprocating Engine	8 / 11.25
AVPP 251	Reciprocating Engine Systems	2 / 2.5
AVPP 253	Reciprocating Ignition Systems	5 / 6.75
AVPP 255	Reciprocating Induction Sys	4 / 5.5
AVPP 257	Aircraft Propeller Systems	4 / 5.5
AVPP 259	Turbine Engine I	4 / 5.5
AVPP 261	Turbine Engine II	4 / 5.5
AVPP 263	Turbine Engine Systems	2 / 2.75
AVPP 265	Powerplant Instruments	2 / 2.5
AVPP 267	Powerplant Certification	1 / 1.5

## Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

## Minimum Total Credit Hours

40 credits / 55 billing hours

## Required Course Sequence

Semester I (Summer)
AVAF 212
Semester II (Fall)
AVPP 241 – Milestone course
Semester III (Spring)
AVPP 251
AVPP 253
AVPP 255
AVPP 257
AVPP 259 – Milestone course
Semester IV (Summer)
AVPP 261
AVPP 263
AVPP 265
AVPP 267

*LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.*