



Powerplant Maintenance Technology C.A.

Career Community: Transportation

Curriculum Code: 1035

Effective: Fall 2022 – Summer 2027

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.

Contact Information

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 |

Minimum Total Credit Hours

40 credits / 55 billing hours

Recommended Course Sequence

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|-----------------------------|
| Semester I (Fall) |
| AVPP 241 – Milestone course |
| Semester II (Spring) |
| AVPP 251 |
| Semester III (Summer) |
| AVAF 212 |
| Semester IV (Spring) |
| AVPP 253 |
| AVPP 255 |
| AVPP 257 |
| AVPP 259 – Milestone course |
| Semester V (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.