

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

**Curriculum Code: 1035
(Effective Fall 2018 –
Summer 2023)**

Powerplant Maintenance Technology C.A. Pathway

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.

For More Information

Contact the Aviation Technology Program at the Mason-Jewett Field, 655 Aviation Drive, Mason, telephone number (517) 483-1406.

Semester I Fall	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
AVPP 241	Reciprocating Engine	Department Approval	8 / 11.25
Credits			8 / 11.25
Semester II Spring	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
AVPP 251	Reciprocating Engine Systems	Department Approval	2 / 2.5
Credits			2 / 2.5
Semester III Summer	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
AVAF 212	Aircraft Electrical II	Department Approval	4 / 5.75
Credits			4 / 5.75

Semester IV Spring	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
AVPP 253	Reciprocating Ignition Systems	Department Approval	5 / 6.75
AVPP 255	Reciprocating Induction Sys	Department Approval	4 / 5.5
AVPP 257	Aircraft Propeller Systems	Department Approval	4 / 5.5
AVPP 259	Turbine Engine I	Department Approval	4 / 5.5
Credits			17 / 23.25
Semester V Summer	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
AVPP 261	Turbine Engine II	Department Approval	4 / 5.5
AVPP 263	Turbine Engine Systems	Department Approval	2 / 2.75
AVPP 265	Powerplant Instruments	Department Approval	2 / 2.5
AVPP 267	Powerplant Certification	Department Approval	1 / 1.5
Credits			9 / 12.25
Total Credits			40 / 55