

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Powerplant Maintenance Technology
Associate in Applied Science Degree

Curriculum Code: 0745 (Effective Fall 2015 – Summer 2020)

Powerplant Maintenance Technicians maintain aircraft in accordance with the Federal Aviation Regulations. Technicians perform inspections, repairs and alterations to aircraft powerplants, propellers and their related systems. In addition, they troubleshoot the operation of induction, cooling, exhaust, fuel metering, ignition, electrical, starting, lubrication propeller and other associated systems. Powerplant maintenance technicians are employed throughout the world maintaining aircraft for major air carriers, commuter airlines, air freight operators, corporate flight departments, fixed base operators and a variety of other specialized aviation businesses. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor before enrolling in any course.

PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

INFORMATION

Contact the Aviation Maintenance Technology Program at Mason–Jewett Field, 655 Aviation Drive, Mason, MI 48854, telephone number (517) 483–1406 (Website: www.lcc.edu/transportation/aviation_maintenance/) or the Transportation Maintenance Technologies Program, West Campus Building, Room M103, telephone number (517) 267–6406.

REQUIREMENTS

REQUIREMENTS		TOTAL: 59 CREDITS
CODE	TITLE	CREDIT HOURS
AVAF 212	Aircraft Electrical II	4
AVGM 111	Aviation General I	4
AVGM 112	Aviation General II	6
AVGM 113	Aviation General III	4
AVGM 114	Materials and Processes	5
AVPP 241	Reciprocating Engine	8
AVPP 251	Reciprocating Engine Systems	2
AVPP 253	Reciprocating Ignition Systems	5
AVPP 255	Reciprocating Induction Sys	4

AVPP 257	Aircraft Propeller Systems	4
AVPP 259	Turbine Engine I	4
AVPP 261	Turbine Engine II	4
AVPP 263	Turbine Engine Systems	2
AVPP 265	Powerplant Instruments	2
AVPP 267	Powerplant Certification	1

LIMITED CHOICE REQUIREMENTS

TOTAL: 16–22 CREDITS

Complete the indicated number of credits from **EACH CHOICE** listed below.

CHOICE 1: [General Education Core Areas](#)

16–22 Credits

(Click the link above for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area	3–4
Global Perspectives and Diversity Core Area	3–4
Mathematics Core Area	3–5
Science Core Area	4–5
Writing Core Area	3–4

MINIMUM TOTAL

75

NOTE:

1. In accordance with Federal Aviation Regulation part 147, completing the aforementioned curriculum does not constitute approval to take the Federal Aviation Administration Airframe or Powerplant Mechanic written, oral, and practical license exams. The FAA approved training director must review individual student enrollment, course records, and certification course testing results before considering each student for certification approval. Students are required to meet Federal Aviation Regulations Part 147 training requirements to be eligible for certification. Students will be required to complete each certification course with a minimum grade of 71 percent and pass pre-tests for General and Powerplant with a minimum grade of 80 percent to be considered for the Federal Aviation Administration written tests. To obtain FAA certification approval, students will be required to complete additional coursework.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

I – Fall

AVGM 111
AVGM 112
AVGM 113
AVGM 114

II – Spring

AVPP 251
AVPP 253
AVPP 255
AVPP 257
AVPP 259

III – Summer

AVAF 212
AVPP 261
AVPP 263
AVPP 265
AVPP 267

IV – Fall

AVPP 241
Lim.Ch.
Lim.Ch.

V – Spring

Lim.Ch.
Lim.Ch.
Lim.Ch.