

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Powerplant Maintenance Technology Certificate of Achievement

Curriculum Code: 1035 (Effective Fall 2011 – Summer 2016)

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.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Aviation Program at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing, MI 48906, Room 109, 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

| CODE | TITLE | TOTAL: 40 CREDITS CREDIT HOURS |
|----------------------|--------------------------------|-----------------------------------|
| AVAF 212 | Aircraft Electrical II | 4 |
| 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 |
| MINIMUM TOTAL | | 40 |

NOTES:

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 Airframe 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.
2. Students must complete each course with a minimum grade of 71 percent to receive the Lansing Community College certificate of achievement.

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 | II – Spring | III – Summer |
|------------------|--|--|
| AVPP 241 | AVPP 251 | AVAF 212 |
| IV – Fall | V – Spring | VI – Summer |
| NA | AVPP 253 AVPP 255 AVPP 257 AVPP 259 | AVPP 261 AVPP 263 AVPP 265 AVPP 267 |