

Master Syllabus

AVT 2143 - Review & Recommendation

Division: Science, Mathematics and Engineering

Department: Aviation Technology

Credit Hour Total: 2.0

Lecture Hrs: 2.0

Other Prerequisite(s): Approval of Department

Date Revised: October 2013

Course Description:

This course provides the aviation mechanic with critical review for the required Federal Aviation Administration (FAA) knowledge exams in the following areas under Part 147 Appendixes B, C and D: General, Airframe, and Powerplant aviation maintenance subjects with hands-on review in preparation for oral and practical exams.

General Education Outcomes:

- ❑ Oral Communication Competency
- ❑ Written Communication Competency
- ❑ Critical Thinking/Problem Solving Competency
- ❑ Values/Citizenship/Community Competency
- ❑ Computer Literacy Competency
- ❑ Information Literacy Competency

Course Outcomes:

Turbine engines

Demonstrate a knowledge of turbine engines to include the following: types of turbine engines, modules of a turbine engine, engine electrical components, lubricating systems, inspection, safety requirements, removal and installation.

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

Reciprocating engines

Demonstrate knowledge of the operation of reciprocating engines to include the following: magnetos, magneto timing to engine, engine electrical, lubrication, fuel metering, and regulations,

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

Regulations for maintenance

Demonstrate in-depth knowledge of Federal Aviation Regulations to include the following: part 39, part 43, part 65, part 91, Airworthiness Directives, manufacturers' manuals, Service Bulletins, and Service Letters.

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

Outline:

Electricity, AC and DC circuits
Regulations for maintenance
Structures of airplanes
Reciprocating engines
Turbine engines
Recommendation testing