Master Syllabus

AVT 1116 - Regulations for Maintenance

Division: Science, Mathematics and Engineering

Department: Aviation Technology

Lecture Hrs: 2.0 Lab Hrs: 2.0 Credit Hour Total: 3.0

Date Revised: October 2012

Course Description:

This course provides the aviation mechanic with critical knowledge in the following areas: FAA regulations, airworthiness directives, mechanics' privileges, legal aircraft record entries, maintenance publications, repair manuals, wiring diagrams, structural repair manuals, Air Transport Association (ATA) numbering system and human factors. Two classroom, two lab hours per week.

General Education Outcomes:

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

Course Outcomes:

Regulation Compliance

Demonstrate an understanding of federal and international regulations governing aircraft maintenance and documentation requirements as they relate to each area of expertise, such as weight and balance requirements and ground operations, and servicing of the aircraft including airworthiness directives and maintenance publications.

Assessment Method: Locally developed exams **Performance Criteria:** 70% correct responses on exams.

Principles of Aircraft Electrical Systems

Demonstrate basic knowledge of the operation of aircraft electrical power production and distribution systems; demonstrate basic knowledge of wiring diagrams, load analysis/math, troubleshooting, and repair.

Assessment Method: Locally developed exams

Performance Criteria: 70% correct responses on exam.

Aircraft Structures

Demonstrate basic knowledge of the composition of materials, the forming of metallic and non-metallic structures used in aircraft construction, repair, materials and processes, corrosion control, inspection methods of those materials, and proper rigging.

Assessment Method: Locally developed exams **Performance Criteria:** 70% correct responses on exam.

Outline:

Indepth analysis of FAA regulations, parts 1, 13, 39, 43, 65, and 91 Principles of aircraft electricity Aircraft structures