

Master Syllabus

AVT 2237 - Aircraft Inspections

Division: Science, Mathematics and Engineering

Department: Aviation Technology

Credit Hour Total: 3.0

Lecture Hrs: 2.0 **Lab Hrs:** 3.0

Date Revised: October 2012

Course Description:

Conduct an annual/100-hour inspection for a complete aircraft including the airframe, engine and related components. Perform necessary servicing related to an annual inspection and check for airworthiness directives, service bulletins and compliance with manufacturer's directives. Operation, servicing, hand communications, aircraft movement and airport operations safety. Two classroom, three lab hours per week.

General Education Outcomes:

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

Course Outcomes:

Operation, servicing, and aircraft movement

Demonstrate the servicing and operation of aircraft, hand communications, and aircraft movement.

Assessment Method: Behavioral observations

Performance Criteria: Mastery of competency at 100%

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exam

Airframe inspection

Demonstrate an annual or 100 hour inspection on an aircraft airframe.

Assessment Method: Behavioral observations

Performance Criteria: Mastery of competency at 100%

Assessment Method: Locally developed exams

Performance Criteria: 0% or higher on exams

Powerplant inspection

Demonstrate an annual or 100 hour inspection on an aircraft powerplant.

Assessment Method: Behavioral observations

Performance Criteria: Mastery of competency at 100%

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exams

Propeller inspection

Demonstrate an annual or 100 hour inspection on aircraft propeller.

Assessment Method: Behavioral observations

Performance Criteria: Mastery of competency at 100%

Assessment Method: Locally developed exams

Performance Criteria: 70% or higher on exam

Outline:

Airframe inspections
Powerplant inspections
Propeller inspections
Starting, operating, and taxiing aircraft
Airworthiness directive research, service bulletins, and service letters
Annual/100 hours service requirements and return to service requirements
Operating on airports, hand signals, servicing, and operations safety