

## 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

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

### 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