

CENTER FOR INNOVATIVE TECHNOLOGIES
MASTER COURSE DOCUMENT

AMT 155 Airframe Assembly and Rigging

Course Description: A course on balancing rigging, and inspecting primary and secondary flight controls of rotor and fixed wing aircraft.

Prerequisites(s): AMT 100, AMT 105, and **MAT 122**

Corequisite(s): No corequisite

Lecture Hours: 3	Lab Hours: 4	Credit Hours: 5
Lab Fee: 200	Supplemental Fee: 0	Purpose:
<input type="checkbox"/> Transfer Assurance Guide Course (TAG)		<input type="checkbox"/> Transfer Module Course (TM)
Course Format: Lec/Lab		Grading: A/B/C/D/F/I
Delivery Method: Classroom		
Semesters Offered: Summer - Days, Spring - Evenings		

Course Primary Text:

Title: Aircraft Maintenance & Repair	Edition: 6th
Author(s): Kroes, Watkins, and Delp	
Publisher: Glencoe	

Supplemental Materials:

Advisory Circular (43.13-1B), U.S. Department of Transportation, Federal Aviation Administration
FAA 8083-31A, U.S. Department of Transportation, Federal Aviation Administration

Course Outcomes:

1	Students will label drawings to illustrate the three axis of rotation.
2	Students will label drawings to illustrate aerodynamic forces on an aircraft.
3	Students will check alignment of an airplane verifying gear, wing and empennage alignment.
4	Students will install a flight control surface on an airframe per manufacturer instructions.
5	Students will identify cables by diameter, type of cable, material and approximate tensile strength.
6	Students will splice aircraft flight control cable to specified length using two nicopress sleeves.
7	Students will move flight controls and label diagram to illustrate control and airplane response.
8	Students will inspect complete cable operated control system of a specific airplane.
9	Students will record results of a cable inspection in simulated aircraft maintenance records.
10	Students will describe and explain corrective action required to balance a flight control surface.

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Course Topics:

Course booklet with FAA approved practical projects and course lectures is located in the AMT Offices at the Cincinnati State West Campus.

Methods of Evaluation/Assessment

Tests
Quizzes
Lab Projects
Lab & Class Participation
Attendance

Course Keeper: Gary Goodpaster

Date Completed: April 01, 2019