

CENTER FOR INNOVATIVE TECHNOLOGIES
MASTER COURSE DOCUMENT

AMT 140 Airframe Electrical Systems

Course Description: A course on troubleshooting aircraft electrical systems and inspecting direct current generators.

Prerequisites(s): AMT 105 and AMT 110

Corequisite(s): No corequisite

Lecture Hours: 4	Lab Hours: 4	Credit Hours: 6
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: Spring - Days, Summer - Evenings		

Course Primary Text:

Title: Aircraft Maintenance and Repair	Edition: 7th
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 inspect samples of solenoid switches and relays with damage from contact chatter.
2	Students will inspect and check anti-collision light installations and circuits.
3	Students will inspect and check position light installations and circuits.
4	Students will inspect installations of retractable landing lights and taxi light on an aircraft or mock-up.
5	Students will check operation and compliance of beams of specification for each type of light.
6	Students will inspect, check, and replace various lamps in an operational DC cabin lighting system.
7	Students will inspect, check, and replace various lamps in an operational AC cabin lighting system.
8	Students will learn to replace an inoperative overhead or panel type cockpit lighting fixture.
9	Students will learn to troubleshoot aircraft electrical systems and locate faults caused by open circuits and shorted circuits.
10	Students will identify major components of an AC aircraft electrical system with a CSDU.

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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