

CENTER FOR INNOVATIVE TECHNOLOGIES
MASTER COURSE DOCUMENT

AMT 203 Powerplant Maintenance 3

Course Description: A course that uses FAA-approved instruction in the subject areas of inspection, check, service, and repair of gas-turbine engines and gas-turbine engine installations. The course also instructs on the removal, installation, and troubleshooting of gas-turbine engines; performing powerplant conformity and airworthiness inspection; engine exhaust and reverser systems; unducted fans; and auxiliary power units.

Prerequisites(s): AMT 202

Corequisite(s): No corequisite

Lecture Hours: 4	Lab Hours: 2	Credit Hours: 5
Lab Fee: 100	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: <input type="checkbox"/> Web <input type="checkbox"/> Hybrid <input type="checkbox"/> Classroom		
Semesters Offered: <input type="checkbox"/> Fall <input type="checkbox"/> Spring <input type="checkbox"/> Summer		

Course Primary Text:

Title: Aircraft Powerplants	Edition: 8th
Author(s): Kroes and Wild	
Publisher: Glencoe	

Supplemental Materials:

FAA Advisory Circular 43-13-1B
Aviation Maintenance Technology Handbook – Powerplant, Volume 1 and 2, FAA-H-8083-32

Course Outcomes:

1	Students will perform a phase check on a gas-turbine engine.
2	Students will lift or hoist a gas-turbine engine into the mount.
3	Students will prepare a gas-turbine engine for a run-up to stabilize temperatures.
4	Students will demonstrate procedures for adjusting idle RPM and maximum RPM on a gas-turbine engine.
5	Students will inspect a gas-turbine engine and accessories for conformity.
6	Students will inspect gas-turbine engine maintenance records to determine airworthiness status.
7	Students will inspect the exhaust system of a reciprocating engine and a gas-turbine engine.
8	Students will test the operation of an engine fire detection system on an aircraft or mock-up.
9	Students will inspect fire extinguisher and check container pressure.
10	Students will adjust voltage regulators of multi-generator DC systems to aircraft specifications.

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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

Lab Projects/Quizzes
Lab/Class Participation
Tests

Course Keeper: Jeffrey Wright

Date Completed: March 27, 2019