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AMT 210 Engine Fuel and Lubrication Systems

Course Description: A course that uses FAA-approved instruction for concepts and techniques in the lubrication systems, fuel metering systems, and engine fuel systems of reciprocating and gas-turbine engines.

Prerequisites(s): AMT 100 and AMT 105 Corequisite(s): No corequisite

Lecture Hours: 5	Lab Hours: 5			Credit Hours: 7		
Lab Fee: 250	Supplemental Fee: 0			Purpose:		
☐ Transfer Assurance Guide C		Transfer Module (Course (TM)			
Course Format: Lec/Lab			Grading: A/B/C/D/F/I			
Delivery Method: Web	□ Hybrid □ Classroom					
Semesters Offered: □ Fall	□ Spring □ 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 disassemble and reassemble a reciprocating engine float carburetor and a pressure carburetor.
2	Students will trace and describe fuel and air through a reciprocating engine carburetor.
3	Students will remove and reinstall a reciprocating engine carburetor metering jet.
4	Students will identify, remove, clean, and reinstall screens in a gas-turbine fuel metering unit.
5	Students will identify and locate air bleed, main accelerating pump, economizer system, and mixture control
	system.
6	system. Students will inspect, remove, reinstall a reciprocating engine float carburetor and adjust speed and mixture of a reciprocating engine.
7	Students will inspect, remove, reinstall a reciprocating engine float carburetor and adjust speed and mixture

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- 9 Students will identify the crankshaft sludge chambers, a restrictor in the gauge or in system, and components of a fuel flow indicating system.
- 10 Students will troubleshoot a fuel flow indicating system.

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

_ab Projects/Quizzes	
_ab/Class Participation	
Tests	

Course Keeper: Jeffrey Wright Date Completed: July 2, 2020