

Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 257 Powerplant Curriculum, Subject Item 9-10

Part 147, Appendix D, Part 2 - Subject A- Engine Instrument Systems

Subject: Engine Instrument Systems

Item 9. Troubleshoot, service, and repair electrical and mechanical fluid rate-of-flow indicating systems. (Level 2)

T – 1.0 Hrs / L – 6.0 Hrs

Item 10. Inspect, check, service, troubleshoot, and repair electrical and mechanical engine temperature, pressure, and r.p.m. indicating systems. (Level 3)

T – 1.0 Hrs / L – 6.0 Hrs

Classroom time: 2.0 hour

Lab or shop time: 12 hours

Test time: 1.0 hours

Total Time: 15 hours

Teaching Level: 2, 3

Project 1

Item 9 – 3.0 Hrs

Item 10 – 3.0 Hrs

Project 2

Item 9 – 3.0 Hrs

Item 10 – 3.0 Hrs

Theory Test

0.25 Hrs

Practical Test

0.75 Hrs

Prerequisite(s)

- (1) All General curriculum subjects (Part 147 Appendix B)
- (2) Powerplant Theory and Maintenance (Part 147 Appendix D, I)

Course Interruptions: All interruptions or changes in course sequence will be in accordance with the Order of Instruction policy, located in Cape Cod Community College's Operations Manual, page 51.

Item 9 & 10:

Student Performance Goal(s)

Given: Piper Colt and Maintenance and Parts Manuals and Lycoming O-235 Service and Parts Manuals; Piper Comanche and Maintenance and Parts Manuals and Lycoming O-540 Service and Parts Manuals; Cessna 402C and Maintenance and Parts Manuals and Continental T S I O-520 Service Manual; AeroTrain AS-30-320 O-320 Test Stand (Training Aid) and Lycoming Direct Drive Overhaul Manual

Performance: The student will research and describe (written) the operation of the fluid rate-of flow and engine temperature, pressure, and rpm indicating systems. The student will also inspect, check, service, troubleshoot, and repair an aircraft or Training Aid with the systems installed.

Standard: The descriptions, systems inspection, checking, servicing, troubleshooting, and repair procedures will be as per the manufacturer's manuals and operating instructions and the student must pass the Theory and Practical Tests with at least a 70% grade.

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