

Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 273 Powerplant Curriculum, Subject Item 29-30

Part 147, Appendix D, Part 2 - Subject 1 – Engine Cooling Systems

Subject: Engine Cooling Systems

Item 29. Repair engine cooling system components. (Level 2)

T – 1.6 Hrs / L 3.0 Hrs Item 30. Inspect, check, troubleshoot, service, and repair engine cooling systems. (Level 3)

T – 1.7 Hrs / L 3.5 Hrs

Classroom time: 3.3 hour

Lab or shop time: 6.5 hours

Test time: 0.2 hours

Total Time: 10 hours

Teaching Level 2, 3

Project 1

Item 29 – 3.0 Hrs

Item 30 – 3.5 Hrs

Theory Test

0.1 Hrs

Practical Test

0.1 Hrs

Prerequisite(s)

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

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 29 & 30:

Student Performance Goal(s)

Given: 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 2 (FAA-H-8083-32) Chapter 6; Piper Colt (PA-22) and Piper Colt (PA-22) Service and Parts Manuals; Piper Comanche 250 (PA-24) and Piper Comanche 250 (PA-24) Service and Parts Manuals; Cessna 402C and Cessna 402C Service Manual and Parts Manual; AeroTrain AE-30-320 O-320 Operational Engine Trainer and AeroTrain AE-30-320 Operation Manual; Lycoming O-540 Engine Service Manual; Continental T S I O-520 Engine Service Manual; Lycoming Direct Drive Overhaul Manual

Performance: The student will inspect, check, troubleshoot, service, and repair an assigned engine cooling system and components.

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

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