

Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 263 Powerplant Curriculum, Subject Item 14-16

Part 147, Appendix D, Part 2 - Subject D. Lubrication Systems

Subject: Lubrication Systems

Item 14. Identify and select lubricants. (Level 2)

T – 1.0 Hrs / L – 4.0 Hrs Item 15. Repair engine lubrication system components. (Level 2)

T – 15.0 Hrs / L – 10.0 Hrs Item 16. Inspect, check, service, troubleshoot, and repair engine lubrication systems. (Level 3)

T – 16.0 Hrs / L – 22.0 Hrs

Classroom time: 32 hour

Lab or shop time: 36 hours

Test time: 2.0 hours

Total Time: 70 hours

Teaching Level 2, 3

Project 1

Item 15 – 5.0 Hrs

Item 16 – 5.0 Hrs

Project 3

Item 16 – 10 Hrs

Theory Test 2

0.25 Hrs

Project 2

Item 14 – 4.0 Hrs

Item 15 – 5.0 Hrs

Item 16 – 7.0 Hrs

Theory Test 1

0.25 Hrs

Practical Test

1.5 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 14 & 15 (...servicing, ...):

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) Flight and Parts Manual; Piper Comanche 250 (PA-24) and Piper Comanche 250 (PA-24) Service and Parts Manuals; Cessna 402C & Cessna 402C Service Manual and Parts Manual; Lycoming O-540 Engine Service Manual; Continental TSIO-520 Engine Service Manual; Lycoming Direct Drive Overhaul Manual

Performance: The student will drain and refill the engine oil reservoir on the assigned engine with the correct oil.

Standard: All actions will be accomplished as per the manufacturer’s manuals. The student must also pass the Theory and Practical Tests with at least a 70% grade.

Item 15 & 16:

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) Flight and Parts Manual; Piper Comanche 250 (PA-24) and Piper Comanche 250 (PA-24) Service and Parts Manuals; Cessna 402C & Cessna 402C Service Manual and Parts Manual; Lycoming O-540 Engine Service Manual; Continental TSIO-520 Engine Service Manual; Lycoming Direct Drive Overhaul Manual

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

Standard: All actions will be accomplished as per the manufacturer’s manuals. The student must also pass the Theory and Practical Tests with at least a 70% grade.

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