

Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 275 Powerplant Curriculum, Subject Item 31-32b

Part 147, Appendix D, Part 2 - Subject J – Engine Exhaust & Reverser Systems

Subject: Engine Exhaust & Reverser Systems

Item 31. Repair engine exhaust system components. (Level 2)

T – 2.5 Hrs / L – 6.0 Hrs Item 32.a. Inspect, check, troubleshoot, service, and repair engine exhaust systems. (Level 3)

T – 3.0 Hrs / L – 6.0 Hrs

Item 32.b. Troubleshoot and repair engine thrust reverser systems and related components. (Level 1)

T – 2.0 Hrs / L – 0.0 Hrs

Classroom time: 7.5 hours

Lab or shop time: 12.0 hours

Test time: 0.5 hours

Total Time: 20 hours

Teaching Level 1, 2, 3

Project 1	Project 2	Theory Test
Item 31 – 3.0 Hrs	Item 31 – 3.0 Hrs	0.25 Hrs
Item 32.a – 3.0 Hrs	Item 32.a – 3.0 Hrs	Practical Test 0.25 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 31 & 32a:

Student Performance Goal(s)

Given: 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 3; Piper Colt (PA-22) and Piper Colt (PA-22) Flight and Parts Manuals; Piper Comanche 250 (PA-24) and Piper Comanche 250 (PA-24) Service Manual and Parts Catalog; Cessna 402C and Cessna 402C Service and Parts Manuals; AeroTrain AE-30-320 O-320 Operational Engine Trainer and AeroTrain AE-30-320 Operation Manual; Lycoming Direct Drive Overhaul Manual and Lycoming O-540 Engine Service Manual; Continental TSIO-520 Service Manual; Toolbox & computer workstation

Performance: The student will inspect, check, troubleshoot, service, and repair the assigned engine's exhaust system and components on an assigned aircraft or test cell. This will include special emphasis on removal and inspection of the heater muff and Turbosupercharger (as applicable).

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

Item 32b:

Student Performance Goal(s)

Given: Classroom discussion and demonstration.

Performance: The student will learn the basics of troubleshooting and repair of engine thrust reverser systems and related components.

Standard: The student must pass a Theory Test with at least a 70% grade.

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