Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 219 Airframe Curriculum, Subject Items 33 - 35

Part 147, Appendix C, Part II, Subject C – Cabin Atmosphere Control Systems

Subject: Cabin Atmosphere Control Systems

Item 33. Inspect, check, troubleshoot, service, and repair heating, cooling, air conditioning, pressurization systems, and air cycle machines (Level 1)
*T – 8.0 Hrs / L – 0.0 Hrs*
Item 34. Inspect, check, troubleshoot, service, and repair heating, cooling, air conditioning, and pressurization systems (Level 1)
*T – 12.5 Hrs / L – 0.0 Hrs*
Item 35. Inspect, check, troubleshoot, service, and repair oxygen systems (Level 2)
*T – 3.5 Hrs / L – 3.5 Hrs*

Classroom time: 26 hours

Lab or shop time: 1.5 hours

Test time: 2.5 hours

Total Time: 30 hours

Teaching Level 1 and 2

**Project 1**
Item 35 – 3.5 Hrs

**Theory Test 2**
0.25 Hrs

**Practical Test 2**
1.0 Hrs

**Theory Test 1**
0.25 Hrs

**Practical Test 1**
1.0 Hrs

Prerequisite(s)

(1) Satisfactory completion of General Curriculum Module

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 17.

Item 33 & 34:

Student Performance Goal(s)

(1) Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 2 (FAA-H-8083-31), Chapter 16. Written information, questions with multiple choice answers, unlabeled diagrams, and completion type essay statements concerning aircraft heaters, cooling, air conditioning, pressurization systems, and air-cycle cooling systems

Performance: The student will inspect labels in spaces provided to identify components in diagrams of a Freon vapor-cycle aircraft refrigeration system and an air cycle aircraft cooling system. He will complete essay statements concerning Freon system components, air-cycle machine components, and checking, trouble-shooting and servicing aircraft cooling systems

Standard: The student will identify and understand the Cabin Atmosphere Control System lessons and score a passing grade on course quiz.

Item 35:

Student Performance Goal(s)

(1) Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 2 (FAA-H-8083-31) Chapter 16. Scott Aviator's Portable Oxygen Bottle and Oxygen Mask.

Performance: The student will check bottle pressure and replace a high pressure oxygen bottle, inspect oxygen masks for contamination and check an oxygen mask and regulator for proper operation.

Standard: All performance will be in compliance with the check sheet provided and the student will identify and understand the Cabin Atmosphere Control System lessons and score a passing grade on course quiz and practical test.

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