Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 217 Airframe Curriculum, Subject Items 30 - 32

Part 147, Appendix C, Part II, Subject B – Hydraulic and Pneumatic Power Systems

Subject: Hydraulic and Pneumatic Power Systems

Item 30. Repair hydraulic and pneumatic power system components (Level 2)

 $T - 6.25 \; Hrs / L - 8.0 \; Hrs$

Item 31. Identify and select hydraulic fluids (Level 3)

T-1.0 Hrs/L-1.0 Hrs

Item 32. Inspect, check, service, troubleshoot, and repair hydraulic and pneumatic power systems (Level 3)

T-20 Hrs /L-29 Hrs

Classroom time: 27.25 hours
Lab or shop time: 38 hours
Test time: 4.75 hours
Total Time: 70 hours
Teaching Level 2 and 3

Project 1 Theory Test 1 Practical Test 2

Item 31 – 1 Hrs 0.25 Hrs 2.25 Hrs

1.75 Hrs

Project 2 0.25 Hrs

Item 30 – 4 Hrs Theory Test 3

Item 32 – 7 Hrs 0.25 Hrs

Project 3 Practical Test 1

Item 30 – 4 Hrs 1.5 Hrs

Item 32 – 12 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 30:

Student Performance Goal(s)

(1) <u>Given</u>: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 2 (FAA-H-8083-31), Chapter 12. Cessna 402C Maintenance Manual. Cessna 402C. TronAir Hydraulic Cart <u>Performance</u>: The student will inspect, check, remove, repair, and reinstall a hydraulic pressure switch.

<u>Standard</u>: The hydraulic pressure switch component need not be airworthy, but the service procedures will be followed without deviation and within return-to-service limits. The student will identify and understand the Hydraulic and Pneumatic Power Systems lessons and score a passing grade on course quiz and practical test.

Item 31 & 32:

Student Performance Goal(s)

(1) <u>Given</u>: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – General, Volume 2 (FAA-H-8083-31) Chapter 12. Cessna 402C Service Manual. Piper Comanche PA 24-250 Maintenance Manual. AeroTrain AS-03 Landing Gear System Trainer. TronAir Hydraulic Cart

<u>Performance</u>: The student will identify and select correct hydraulic fluids. The student will also inspect, check, service, troubleshoot, and repair hydraulic and pneumatic power systems as well as hydraulic filter bowls, filters and pneumatic waste gates.

<u>Standard</u>: Hydraulic fluids identification will be without error. The hydraulic and pneumatic components need not be airworthy, but the service procedures will be followed without deviation and within return-to-service limits. The student will identify and understand the Hydraulic and Pneumatic Power Systems lessons and score a passing grade on course quiz and practical test.

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