Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 225 Airframe Curriculum, Subject Items 41 - 47

Part 147, Appendix C, Part 2, Subject F – Aircraft Fuel Systems

Subject: Aircraft Fuel Systems

Item 41. Check and service fuel dump systems. (Level 1)
T – 1.0 Hrs / L – 0.0 Hrs
Item 42. Perform fuel management transfer, and defueling. (Level 1)
T – 2.0 Hrs / L – 0.0 Hrs
Item 43. Inspect, check, and repair pressure fueling systems. (Level 1)
T – 2.0 Hrs / L – 0.0 Hrs
Item 44. Repair aircraft fuel system components. (Level 2)
T – 4.0 Hrs / L – 5.5 Hrs
Item 45. Inspect and repair fluid quantity indicating systems. (Level 2)
T – 3.0 Hrs / L – 3.5 Hrs
Item 46. Troubleshoot, service, and repair fluid pressure and temperature warning systems. (Level 2)
T – 1.0 Hrs / L – 1.0 Hrs Item 47. Inspect, check, service, troubleshoot, and repair aircraft fuel systems. (Level 3)
T – 5.5 Hrs / L – 8.0 Hrs

Classroom time: 18.5 hours

Lab or shop time: 18 hours

Test time: 3.5 hours

Total Time: 40 hours

Teaching Level 1, 2, and 3

Project 1
Item 44 – 5.5 Hrs

Project 2
Item 45 – 3.5 Hrs

Project 3
Item 46 – 1 Hrs

Project 4
Item 47 – 8 Hrs

Theory Test 1
0.25 Hrs

Theory Test 2
0.25 Hrs

Practical Test 1
2.0 Hrs

Practical Test 2
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.

Items 41-43:

Student Performance Goal(s)

Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 2 (FAA-H-8083-31), Chapter 14. Regulations, and aircraft maintenance data pertaining to a fuel jettison system, the Cessna 402C aircraft fuel system and the AeroTrain AS11 Turbine Fuel System Trainer.

Performance: The student will read and interpret the Aircraft Fuel Systems chapter in the AMT Handbook and complete classroom course with instructor guidance. The student will answer questions regarding regulations concerning certificated fuel systems. The student will describe and answer questions related to an aircraft fuel dump/jettison system, discuss fuel management (Transfer and Defueling), and the inspection, checking, and repairing of pressure fueling systems.

Standard: The student will identify and understand the Aircraft Fuel System lessons and score a passing grade on course quiz.

Item 44:

Student Performance Goal(s)

Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 2 (FAA-H-8083-31) Chapter 14. AeroTrain AS11 Turbine Fuel System Trainer Manual

Performance: The student will be presented with several different fuel discrepancies on the AeroTrain Turbine Fuel System Trainer and conduct the repair required to return the trainer to an airworthy condition

Standard: All work will be done in accordance with 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 1 (FAA-H-8083-31) Chapter 14 and the AeroTrain AS11 Turbine Fuel System Trainer Manual.

Item 45:

Student Performance Goal(s)

Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 2 (FAA-H-8083-31) Chapter 14. Cessna 402C Maintenance Manual

Performance: The student will inspect, calibrate, and repair fluid quantity indicating systems on the Cessna 402C

Standard: All work will be done in accordance with 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 1 (FAA-H-8083-31) Chapter 14 and the Cessna 402C Maintenance Manual, Chapter 28-40-00, page 501.

Item 46:

Student Performance Goal(s)

Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 2 (FAA-H-8083-31) Chapter 14. Cessna 402C Maintenance Manual Chapter 12

Performance: The student will defuel and fuel the Cessna 402C and then troubleshoot, service, and repair fluid pressure and temperature warning systems on the Cessna 402C

Standard: All work will be done in accordance with 14 CFR Federal Aviation Regulations for
Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe,
Volume 1 (FAA-H-8083-31) Chapter 14 and the Cessna 402C Maintenance Manual, Chapter 12-10-01 and 12-10-02

Item 47:

Student Performance Goal(s)

Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 2 (FAA-H-8083-31) Chapter 14. Cessna 402C Maintenance Manual Chapter 28

Performance: The student will inspect, check, service, troubleshoot, and repair an aircraft fuel filtration system on the Cessna 402C and perform the test/checkout procedure of the fuel system

Standard: All work will be done in accordance with 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 1 (FAA-H-8083-31) Chapter 14 and the Cessna 402C Maintenance Manual, Chapter 28-20-01

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