Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 223 Airframe Curriculum, Subject Items 38 - 40

Part 147, Appendix C, Part 2, Subject E – Communication and Navigation Systems

Subject: Communication and Navigation Systems

Item 38. Inspect, check, and troubleshoot autopilot, servos and approach coupling systems (Level 1)
T – 4.25 Hrs / L – 0.0 Hrs
Item 39. Inspect, check, and service aircraft electronic communication and navigation systems, including VHF passenger address interphones and static discharge devices, aircraft VOR, ILS, LORAN, Radar beacon transponders, flight management computers, and GPWS (Level 1)
T – 4.5 Hrs / L – 0.0 Hrs
Item 40. Inspect and repair antenna and electronic equipment installations (Level 2)
T – 5.0 Hrs / L – 5.0 Hrs

Classroom time: 13.75 hours

Lab or shop time: 5 hours

Test time: 1.25 hours

Total Time: 20 hours

Teaching Level 1 and 2

Project 1
Item 40 – 5 Hrs

Practical Test 1
0.5 Hrs

Theory Test 1
0.25 Hrs

Practical Test 2
0.5 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 38 & 39:

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 11.

Performance: The student will read and interpret the Communication and Navigation Systems chapter in the AMT Handbook and complete classroom course with instructor guidance for inspecting, checking, servicing, and troubleshooting autopilot, servos and approach coupling systems, aircraft electronic communication and navigation systems, including VHF passenger address interphones, static discharge devices, aircraft VOR, ILS, LORAN, radar beacon transponders, flight management computers, and GPWS.

Standard: The student will identify and understand the Communication and Navigation Systems lessons and score a passing grade on course quiz and practical test.

Item 40:

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 11. Advisory Circular AC 43.13B Chapter 3. Advisory Circular AC 43.13B Section 4. Piper Colt PA 22-108 Service Manual. Piper Colt PA 22-108.

Performance: The student will inspect, troubleshoot, remove, and repair an aircraft antenna and electronic equipment installation.

Standard: The communication and navigation system 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 Communication and Navigation Systems lessons and score a passing grade on course quiz and practical test.

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