

Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 221 Airframe Curriculum, Subject Items 36 and 37

Part 147, Appendix C, Part II, Subject D – Aircraft Instrument Systems

Subject: Aircraft Instruments Systems

Item 36. Inspect, check, service, troubleshoot, and repair electronic flight instrument systems and both mechanical and electrical heading, speed, altitude, temperature, pressure, and position indicating systems to include the use of built-in test equipment (Level 1)

*T – 6.75 Hrs / L – 0.0 Hrs*

Item 37. Install instruments and perform a static pressure system leak test (Level 2)

*T – 4.0 Hrs / L – 6.0 Hrs*

Classroom time: 10.75 hours

Lab or shop time: 6 hours

Test time: 3.25 hours

Total Time: 20 hours

Teaching Level 1 and 2

**Project 1A, 1B, & 1C**

**Theory Test 1**

**Practical Test 2**

Item 37 – 3 Hrs

0.25 Hrs

2.0 Hrs

**Project 2A, 2B, & 2C**

**Practical Test 1**

Item 37 – 3 Hrs

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 36:

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 10. A random display of aircraft instruments, including direct pressure indicating instruments, gyro instruments, temperature indicating instruments, compasses, and remote indicating indicators and transmitters; suitable cartons or storage containers, sealing plugs and shock absorbing shipping materials.

Performance: The student will remove at least three instruments from the display panel or mock-up, seal all openings to the instrument, attach an identification tag and prepare the instrument for storage or shipment.

Standard: The task of removing and identifying and preparing the instrument for storage or shipment will demonstrate precautions that will prevent further damage to the instrument. The student will identify and understand the Aircraft Instrument System lesson and score a passing grade on course quiz.

Item 37:

Student Performance Goal(s)

- (1) Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians (2016 Edition), Aviation Maintenance Technician Handbook – Airframe Volume 2 (FAA-H-808330) Chapter 10. Cessna 402C Maintenance Manual, Chapters 5 and 34. Laversab 6200 Manual.

Performance: The student will inspect, check, service, trouble-shoot and repair one system which has been made faulty by an action of the instructor.

Standard: The student will interpret the written information, correctly identify and correct the fault in the system, and score a passing grade on course quiz and practical test.

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