

Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 261 Powerplant Curriculum, Subject Items 12 & 13

Part 147, Appendix D, Part 2 - Subject C - Engine Electrical Systems

Subject: Engine Electrical Systems

Item 12. Repair engine electrical system components. (Level 2)

T – 15 Hrs / L – 17.5 Hrs

Item 13. Install, check, and service engine electrical wiring, controls, switches, indicators, and protective devices. (Level 3)

T – 17.25 Hrs / L – 18.5 Hrs

Classroom time: 32.25 hour

Lab or shop time: 36 hours

Test time: 1.75 hours

Total Time: 70 hours

Teaching Level 2, 3

Project 1

Item 12 – 17.5 Hrs

Item 13 – 18.5 Hrs

Theory Test

0.25 Hrs

Practical Test

1.5 Hrs

Prerequisite(s)

- (1) All General curriculum subjects (Part 147 Appendix B)
- (2) Powerplant Theory and Maintenance (Part 147 Appendix D, I)

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 51.

Item 12 & 13:

Student Performance Goal(s)

Given: Cessna 402C and Maintenance and Parts Manuals; Piper Comanche 250 and Service and Parts Manuals; Piper Colt and Service and Parts Manuals

Performance: The student will inspect the assigned aircraft's electrical system from the firewall forward to the propeller and all associated wiring, controls, switches, indicators, and protective devices installed elsewhere. The student will list all discrepancies found and show them to the Instructor and repair the Instructor-assigned discrepancies and replace the Instructor-assigned component. The student will also complete the appropriate maintenance record entry.

Standard: The systems checking, servicing, and repair procedures will restore the system to serviceable condition as per the manufacturer's instructions and acceptable industry practices. The student must also pass the Theory and Practical Tests with at least a 70% grade.

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