

Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 209 Airframe Curriculum, Subject Items 17 - 21

Part 147, Appendix C, Part 1, Subject E - Welding

Subject: Welding

Item 17. Weld magnesium and titanium (Level 1)

T – 2.0 Hrs / L – 0.0 Hrs

Item 18. Solder stainless steel (Level 1)

T – 1.0 Hrs / L – 0.0 Hrs

Item 19. Fabricate tubular structure (Level 1)

T – 5.25 Hrs / L – 0.0 Hrs

Item 20. Solder, braze, gas-weld, and arc-weld steel (Level 2)

T – 5.0 Hrs / L – 28 Hrs

Item 21. Weld aluminum and stainless steel (Level 1)

T – 1.0 Hrs / L – 0.0 Hrs

Classroom time: 14.25 hours

Lab or shop time: 28 hours

Test time: 2.75 hours

Total Time: 45 hours

Teaching Level 1 and 2

Project 1

Item 20 – 4 Hrs

Project 3

Item 20 – 20 Hrs

Practical Test 1

2.5 Hrs

Project 2

Item 20 – 4 Hrs

Theory Test 1

0.25 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 17-19, and 21:

Student Performance Goal(s)

Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 1 (FAA-H-8083-31) Chapter 5

Performance: The student will read and interpret the Welding chapter in the AMT Handbook and complete classroom course with instructor guidance for the welding of magnesium, titanium, aluminum, stainless steel, the fabrication of tubular structures, and soldering of stainless steel.

Standard: The student will identify and understand the Welding lesson and score a passing grade on course quiz.

Item 20:

Student Performance Goal(s)

Given: 14 CFR Federal Aviation Regulations for Aviation Maintenance Technicians, Aviation Maintenance Technician Handbook – Airframe, Volume 1 (FAA-H-8083-31) Chapter 5, Soldamatic Virtual Welding Trainer

Performance: The student will participate in welding techniques described and demonstrated by the instructor for soldering, brazing, gas-welding, and arc-welding steel.

Standard: The student will identify and understand the Welding lesson and score a passing grade on course quiz and practical test.

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