

Cape Cod Community College AMTS

Curriculum Subject Guide for AMT 211 Airframe Curriculum, Subject Items 22 - 27

Part 147, Appendix C, Part 1, Subject F – Assembly and Rigging

Subject: Assembly and Rigging

Item 22. Rig rotary-wing aircraft (Level 1)

*T – 4.75 Hrs / L – 0.0 Hrs*

Item 23. Rig fixed-wing aircraft (Level 2)

*T – 2.75 Hrs / L – 4.0 Hrs*

Item 24. Check alignment and structures (Level 2)

*T – 2.0 Hrs / L – 7.0 Hrs*

Item 25. Assemble aircraft components, including flight control surfaces (Level 3)

*T – 1.0 Hrs / L – 5.5 Hrs*

Item 26. Balance, rig, and inspect movable primary and secondary flight control surfaces (Level 3)

*T – 2.75 Hrs / L – 18 Hrs*

Item 27. Jack aircraft (Level 3)

*T – 1.0 Hrs / L – 2.0 Hrs*

Classroom time: 14.25 hours

Lab or shop time: 36.5 hours

Test time: 4.25 hours

Total Time: 55 hours

Teaching Level 2 and 3

Project 1

Item 23 – 4.0 Hrs

Item 26 – 4.0 Hrs

Project 2

Item 24 – 7.0 Hrs

Item 26 – 3.0 Hrs

Project 3

Item 25 – 5.5 Hrs

Item 26 – 3.0 Hrs

Project 4

Item 26 – 6.0 Hrs

Item 27 – 2.0 Hrs

Project 5

Item 26 – 2.0 Hrs

Theory Test 1

0.25 Hrs

Theory Test 2

0.25 Hrs

Theory Test 3

0.25 Hrs

Practical Test 1

1.0 Hrs

Practical Test 2

2.5 Hr

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 22.

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 2

Performance: The student will read and interpret the Assembly and Rigging chapter in the AMT Handbook and complete classroom course with instructor guidance for the rigging of rotary wing aircraft

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

Item 23 - 26

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 2. Cessna 402C Maintenance Manual Chapter 27.

Performance: The student will assemble aircraft components, balance, rig, and inspect primary and secondary flight control surfaces by rigging a fixed-wing aircraft. Aileron, aileron trim tab, aileron trim tab actuator, and aileron bell crank adjustments will be made on the Cessna 402C and a flight control checkout procedure will be conducted to ensure proper alignment of structures has been achieved.

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), Chapters 2 and Cessna 402C Maintenance Manual Chapter 27-10-00, pages 207 and 501. A flight control checkout will be completed as per Chapters 27-10-01, 27-10-02, and 27-10-10 to ensure all adjustments have been completed correctly.

Item 27:

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 2. Cessna 402C Maintenance Manual, Chapter 7

Performance: The student(s) will jack an aircraft to allow inspection, adjustment, rigging, and checkout procedures on the rudder and tab control system 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 2 and Cessna 402C Maintenance Manual Chapter 7. The student(s) will conduct aircraft jacking on their own accord, but direct instructor supervision will be required to ensure safety of evolution

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