

AMT A188: G.R.O.L. AND AVIONICS RULES AND REGULATIONS

Item	Value
Curriculum Committee Approval Date	12/08/2021
Top Code	095040 - Aircraft Electronics (Avionics)
Units	1.5 Total Units
Hours	27 Total Hours (Lecture Hours 27)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Open Entry/Open Exit	No
Grading Policy	Standard Letter (S)

Course Description

Federal Communication Commission general radiotelephone operations license (G.R.O.L.) exam preparation. Federal Aviation Administration rules and regulations as they apply to the maintenance of avionics systems. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Pass the FCC Radiotelephone exam with a score of 70 percent or better.
2. Explain the Federal Aviation Regulations related to avionics installations.
3. Complete of FAA form 337 following an avionics system installation.

Course Objectives

- 1. Complete the FCC exam element 1 with at least a 70 percent.
- 2. Complete the FCC exam element 2 with at least a 70 percent.
- 3. Complete the FCC exam element 3 with at least a 70 percent
- 4. Explain the Federal Aviation Regulations related to avionics installations.
- 5. Demonstrate the proper completion of FAA form 337 following an avionics system installation.

Lecture Content

FCC exam element 1 preparation Complete FCC G.R.O.L. exam element 1 with a minimum score of 75% Basic radio law and radiotelephone operating practice FCC exam element 3 - sections A, B, C preparation FCC exam element 3 - sections D, E, F preparation Operating procedures Radio wave propagation Radio practice Electrical principles Circuit components Practical circuits Signals and emissions Antennas and feed lines FCC exam element 3 - sections G and H preparation Federal Aviation Administration regulations applied to maintenance, repair, and installations of avionics systems Federal Aviation Administration form 337 documentation procedures

Method(s) of Instruction

- Lecture (02)

Instructional Techniques

Lecture, computer based training

Reading Assignments

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Writing Assignments

Completion of Federal Forms

Out-of-class Assignments

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Demonstration of Critical Thinking

Multiple choice and oral exams

Required Writing, Problem Solving, Skills Demonstration

Completion of Federal Forms

Textbooks Resources

1. Required Maia, Fred and Gordon West. General Radiotelephone Operator License, ed. Lincolnwood: Master Publishing Inc, 2007