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Title 14 → Chapter I → Subchapter H → Part 147 → Appendix

Title 14: Aeronautics and Space
PART 147—AVIATION MAINTENANCE TECHNICIAN SCHOOLS

APPENDIX A TO PART 147—CURRICULUM REQUIREMENTS

This appendix defines terms used in appendices B, C, and D of this part, and describes the levels of proficiency at which items under each subject in each curriculum must be taught, as outlined in appendices B, C, and D.

(a) *Definitions.* As used in appendices B, C, and D:

(1) *Inspect* means to examine by sight and touch.

(2) *Check* means to verify proper operation.

(3) *Troubleshoot* means to analyze and identify malfunctions.

(4) *Service* means to perform functions that assure continued operation.

(5) *Repair* means to correct a defective condition. Repair of an airframe or powerplant system includes component replacement and adjustment, but not component repair.

(6) *Overhaul* means to disassemble, inspect, repair as necessary, and check.

(b) *Teaching levels.* (1) **Level 1** requires:

(i) Knowledge of general principles, but no practical application.

(ii) No development of manipulative skill.

(iii) Instruction by lecture, demonstration, and discussion.

(2) **Level 2** requires:

(i) Knowledge of general principles, and limited practical application.

(ii) Development of sufficient manipulative skill to perform basic operations.

(iii) Instruction by lecture, demonstration, discussion, and limited practical application.

(3) **Level 3** requires:

(i) Knowledge of general principles, and performance of a high degree of practical application.

(ii) Development of sufficient manipulative skills to simulate return to service.

(iii) Instruction by lecture, demonstration, discussion, and a high degree of practical application.

(c) *Teaching materials and equipment.* The curriculum may be presented utilizing currently accepted educational materials and equipment, including, but not limited to: calculators, computers, and audio-visual equipment.

[Amdt. 147-2, 35 FR 5534, Apr. 3, 1970, as amended by Amdt. 147-5, 57 FR 28960, June 29, 1992]

Need assistance?

<u>General Subjects</u>	<u>Course #</u>	<u>Teaching Level</u>	<u>Required Project</u>
I. Powerplant Theory & Maintenance			
A. RECIPROCATING ENGINES			
1. Inspect & repair a radial engine	AVTN206	1	-----
2. Overhaul reciprocating engine	AVTN206	2	RE-1
3. Inspect, check, service, & repair Reciprocating engines & engine installations	AVTN207	3	RE-2, 3, 4, 5 6, 7
4. Install, troubleshoot, & remove reciprocating engines	AVTN207	3	RE-8, 9, 10, 11, 12
B. TURBINE ENGINES			
5. Overhaul turbine engine	AVTN210	2	TE-1
6. Inspect, check, service, & repair turbine engine & turbine engine installations	AVTN210	3	TE-1
7. Install, troubleshoot, & remove turbine engines	AVTN210	3	TE-2
C. ENGINE INSPECTION			
8. Perform powerplant conformity & airworthiness inspection	AVTN206	3	RE-13
II. Powerplant Systems & Components			
A. ENGINE INSTRUMENT SYSTEMS			
9. Troubleshoot, service, & repair electrical & mechanical fluid rate-of-flow indicating systems	AVTN208	2	ES-1
10. Inspect, check, service, troubleshoot, & repair electrical & mechanical engine temperature, pressure, & r.p.m. indicating systems	AVTN208	3	ES-1
B. ENGINE FIRE PROTECTION SYSTEMS			
11. Inspect, check, service, troubleshoot, & repair engine fire detection & extinguishing systems	AVTN208	3	ES-3

General Subjects	Course #	Teaching Level	Required Project
C. ENGINE ELECTRICAL SYSTEMS			
12. Repair engine electrical system components	AVTN212	2	EE-1
13. Install, check, & service engine electrical wiring, controls, switches, indicators, & protective devices	AVTN212	3	EE-2
D. LUBRICATION SYSTEMS			
14. Identify & select lubricants	AVTN208	2	ES-12
15. Repair engine lubrication system components	AVTN208	2	ES-13
16. Inspect, check, service, troubleshoot, & repair engine lubrication systems	AVTN208	2	ES-4, 5, 6
E. IGNITION & STARTING SYSTEMS			
17. Overhaul magneto & ignition harness	AVTN212	2	EE-3
18. Inspect, service, troubleshoot, & repair reciprocating & turbine engine ignition systems & components	AVTN212	2	EE-4
19. a. Inspect, service, troubleshoot & repair turbine engine electrical starting systems	AVTN212	3	EE-4
b. Inspect, service, & troubleshoot turbine engine pneumatic starting system	AVTN210	1	-----
F. FUEL METERING SYSTEMS			
20. Troubleshoot & adjust turbine engine fuel metering systems & electronic engine fuel controls	AVTN211	1	-----
21. Overhaul carburetor	AVTN211	2	EF-1
22. Repair engine fuel metering system components	AVTN211	2	EF2
23. Inspect, check, service, troubleshoot, & repair reciprocating & turbine engine fuel metering system	AVTN211	3	EF-4

General Subjects	Course #	Teaching Level	Required Project
G. ENGINE FUEL SYSTEMS			
24. Repair engine fuel system components	AVTN211	2	EF-4
25. Inspect, check, service, troubleshoot, & repair engine fuel systems	AVTN211	3	EF-5
H. INDUCTION & ENGINE AIRFLOW SYSTEMS			
26. Inspect, check, troubleshoot, service, & repair engine ice & rain control systems.	AVTN208	2	ES-8
27. Inspect, check, service, troubleshoot & repair heat exchanges, superchargers, & turbine engine airflow & temperature control systems	AVTN208	1	-----
28. Inspect, check, service, & repair carburetor air intake & induction manifolds	AVTN208	3	ES-9
I. ENGINE COOLING SYSTEMS			
29. Repair engine cooling system components	AVTN208	2	ES-10
30. Inspect, check, troubleshoot, service & repair engine cooling systems	AVTN208	3	ES-7
J. ENGINE EXHAUST & REVERSER SYSTEMS			
31. Repair engine exhaust system components	AVTN208	2	ES-11
32 a. Inspect, check, troubleshoot, service, & repair engine exhaust systems	AVTN208	3	ES-8
b. Troubleshoot & repair engine thrust reverser systems & related components	AVTN208	1	-----
K. PROPELLERS			
33. Inspect, check, service, and repair propeller synchronizing & ice control system	AVTN209	1	-----
34. Identify & select propeller lubricants	AVTN209	2	PS-1
35. Balance propellers	AVTN209	1	-----

General Subjects	Course #	Teaching Level	Required Project
36. Repair propeller control system components	AVTN209	2	PS-2
37. Inspect, check, service, & repair fixed pitch constant-speed, & feathering propellers, & propeller governing systems	AVTN209	3	PS-3
38. Install, troubleshoot, & remove propellers	AVTN209	3	PS-4
39. Repair aluminum alloy propeller blades	AVTN209	3	PS-5
L. UNDUCTED FANS			
40. Inspect & troubleshoot unducted fan systems & components	AVTN210	1	----
M. AUXILIARY POWER PLANTS			
41. Inspect, check, service & troubleshoot turbine-driven auxiliary power units	AVTN210	1	----