

**A012 . Affiliated Designated Mechanic Examiners (DMEs)**

**HQ Control: 11/21/2014**

**HQ Revision: 000**

a. The certificate holder is authorized to conduct operations under 14 CFR Part 147 using affiliated Designated Mechanic Examiners (DMEs). DMEs affiliated with the Aviation Maintenance Technician School (AMTS) and who are identified in the Designated Airman Table of the Flight Standards Automation System's National Vital Information Subsystem are authorized to conduct tests for the AMTS.

1. Issued by the Federal Aviation Administration.

2. These Operations Specifications are approved by direction of the Administrator.



Digitally signed by Paul W Hubbard, Principal Maintenance Inspector (EA65)

[1] EFFECTIVE DATE: 10/4/2016, [2] AMENDMENT #: 0

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Geoffry, Patrick, Agent for Service

01-08-2020

Date

**A013 . Instructors**

**HQ Control: 11/21/2014**

**HQ Revision: 000**

a. To meet the requirements of Title 14 CFR Part 147, §§ 147.5, 147.23 and 147.36, the certificate holder must continue to provide the number of instructors holding appropriate mechanic certificates and ratings that the Administrator determines necessary for adequate instruction and supervision of the students, including at least one such instructor for each 25 students in each shop class. However, the applicant may provide specialized instructors, who are not certificated mechanics, to teach mathematics, physics, basic electricity, basic hydraulics, drawing, and similar subjects.

b. The applicant is required to maintain a list of the names and qualifications of specialized instructors, and upon request, provide a copy of the list to the FAA.

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Digitally signed by Mark A. Auclair, Principal Avionics Inspector (EA65)  
[1] EFFECTIVE DATE: 10/31/2017, [2] AMENDMENT #: 1  
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3. I hereby accept and receive the Operations Specifications in this paragraph.

  
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Geoffrey, Patrick, Agent for Service

  
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Date

**A025 . Recordkeeping System**

**HQ Control: 11/21/2014**

**HQ Revision: 000**

- a. The certificate holder is authorized to use the recordkeeping system, required by 14 CFR Part 147 § 147.33 as described or referenced in this paragraph:

NSUT Policies & Procedures Manual, Part 2, Page 34

- b. The certificate holder must maintain trainee records and instructor qualification records, citing regulatory compliance, at:

**Table 1 – Location Information for Records**

Physical Address	Point of Contact	Telephone Number	Fax Number	Email Address
505 Amherst St. Nashua, NH 03061	Patrick Geoffroy	603-578-8914	603-882-8690	pgeoffroy@ccsnh.edu

- c. The certificate holder is authorized to use an approved electronic/digital recordkeeping system, described/referenced in this paragraph (if no recordkeeping system is used, enter "N/A").

N/A

- d. The certificate holder is authorized to use the following electronic/digital signature procedures (if none, enter "N/A").

N/A

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[1] EFFECTIVE DATE: 10/31/2017, [2] AMENDMENT #: 1  
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Geoffry, Patrick, Agent for Service

11/01/17

Date



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**B002 . Required Minimum Curriculum for General (Part 147  
Appendix B)**

**HQ Control: 11/21/2014**

**HQ Revision: 000**

- a. The certificate holder must develop, for FAA approval, a curriculum covering the following elements for conducting training for mechanic certification and ratings in accordance with 14 CFR Parts 65 and 147.
- b. The certificate holder must determine and certify each applicant's eligibility and experience requirements prior to testing for the issuance of a graduation certificate or a certificate of completion.
- c. Part 147 Appendix B lists the subjects required in at least 400 hours in general curriculum subjects. The number in parentheses before each item listed under each subject heading indicates the level of proficiency at which that item must be taught.

**Table 1 - General Curriculum Subjects and Topics**

Teaching Level	Required Curriculum Topics
<b>A. Basic Electricity</b>	
(2)	1. Calculate and measure capacitance and inductance.
(2)	2. Calculate and measure electrical power.
(3)	3. Measure voltage, current, resistance, and continuity.
(3)	4. Determine the relationship of voltage, current, and resistance in electrical circuits.
(3)	5. Read and interpret aircraft electrical circuit diagrams, including solid state devices and logic functions.
(3)	6. Inspect and service batteries.
<b>B. Aircraft Drawings</b>	
(2)	7. Use aircraft drawings, symbols, and system schematics.
(3)	8. Draw sketches of repairs and alterations.
(3)	9. Use blueprint information.
(3)	10. Use graphs and charts.
<b>C. Weight and Balance</b>	
(2)	11. Weigh aircraft.
(3)	12. Perform complete weight-and-balance check and record data.
<b>D. Fluid Lines and Fittings</b>	
(3)	13. Fabricate and install rigid and flexible fluid lines and fittings.

Teaching Level	Required Curriculum Topics
<b>E. Materials and Processes</b>	
(1)	14. Identify and select appropriate nondestructive testing methods.
(2)	15. Perform dye penetrant, eddy current, ultrasonic, and magnetic particle inspections.
(1)	16. Perform basic heat-treating processes.
(3)	17. Identify and select aircraft hardware and materials.
(3)	18. Inspect and check welds.
(3)	19. Perform precision measurements.
<b>F. Ground Operation and Servicing</b>	
(2)	20. Start, ground operate, move, service, and secure aircraft and identify typical ground operation hazards.
(2)	21. Identify and select fuels.
<b>G. Cleaning and Corrosion Control</b>	
(3)	22. Identify and select cleaning materials.
(3)	23. Inspect, identify, remove, and treat aircraft corrosion and perform aircraft cleaning.
<b>H. Mathematics</b>	
(3)	24. Extract roots and raise numbers to a given power.
(3)	25. Determine areas and volumes of various geometrical shapes.
(3)	26. Solve ratio, proportion, and percentage problems.
(3)	27. Perform algebraic operations involving addition, subtraction, multiplication, and division of positive and negative numbers.
<b>I. Maintenance Forms and Records</b>	
(3)	28. Write descriptions of work performed including aircraft discrepancies and corrective actions using typical aircraft maintenance records.
(3)	29. Complete required maintenance forms, records, and inspection reports.

Teaching Level	Required Curriculum Topics
<b>J. Basic Physics</b>	
(2)	30. Use and understand the principles of simple machines; sound, fluid, and heat dynamics; basic aerodynamics; aircraft structures; and theory of flight.
<b>K. Maintenance Publications</b>	
	31. Demonstrate ability to read, comprehend, and apply information contained in FAA and manufacturers' aircraft maintenance specifications, data sheets, manuals,

(3)	publications, and related federal aviation regulations, airworthiness directives, and advisory material.
(3)	32. Read technical data.
<b>L. Mechanic Privileges and Limitations</b>	
(3)	33. Exercise mechanic privileges within the limitations prescribed by Part 65.


1. Issued by the Federal Aviation Administration.


2. These Operations Specifications are approved by direction of the Administrator.



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Geoffry, Patrick, Agent for Service

  
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Date



**B003 . Required Minimum Curriculum for Airframe (Part 147 Appendix C)**      **HQ Control: 11/21/2014**  
**HQ Revision: 000**

- a. The certificate holder must develop for FAA approval a curriculum covering the following elements for conducting training for mechanic certification and ratings in accordance with 14 CFR Parts 65 and 147.
- b. The certificate holder must determine and certify each applicant's eligibility and experience requirements prior to testing for the issuance of a graduation certificate or a certificate of completion.
- c. Part 147 Appendix C lists the subjects required in at least 750 hours of each airframe curriculum, in addition to at least 400 hours in general curriculum subjects. The number in parentheses before each item listed under each subject heading indicates the level of proficiency at which that item must be taught.

**Table 1 - Airframe Curriculum Subjects and Topics**

<b>I. Airframe Structures</b>	
<b>Teaching Level</b>	<b>Required Curriculum Topics</b>
<b>A. Wood Structures</b>	
(1)	1. Service and repair wood structures.
(1)	2. Identify wood defects.
(1)	3. Inspect wood structures.
<b>B. Aircraft Covering</b>	
(1)	4. Select and apply fabric and fiberglass covering materials.
(1)	5. Inspect, test, and repair fabric and fiberglass.
<b>C. Aircraft Finishes</b>	
(1)	6. Apply trim, letters, and touchup paint.
(2)	7. Identify and select aircraft finishing materials.
(2)	8. Apply finishing materials.
(2)	9. Inspect finishes and identify defects.
<b>D. Sheet Metal and Non-Metallic Structures</b>	
(2)	10. Select, install, and remove special fasteners for metallic, bonded, and composite structures.
(2)	11. Inspect bonded structures.
(2)	12. Inspect, test, and repair fiberglass, plastics, honeycomb, composite, and laminated primary and secondary structures.
(2)	13. Inspect, check, service, and repair windows, doors, and interior furnishings.
(3)	14. Inspect and repair sheet-metal structures.
(3)	15. Install conventional rivets.
(3)	16. Form, lay out, and bend sheet metal.

**I. Airframe Structures (Continued)**



Teaching Level	Required Curriculum Topics
<b>E. Welding</b>	
(1)	17. Weld magnesium and titanium.
(1)	18. Solder stainless steel.
(1)	19. Fabricate tubular structures.
(2)	20. Solder, braze, gas-weld, and arc-weld steel.
(1)	21. Weld aluminum and stainless steel.
<b>F. Assembly and Rigging</b>	
(1)	22. Rig rotary-wing aircraft.
(2)	23. Rig fixed-wing aircraft.
(2)	24. Check alignment of structures.
(3)	25. Assemble aircraft components, including flight control surfaces.
(3)	26. Balance, rig, and inspect movable primary and secondary flight control surfaces.
(3)	27. Jack aircraft.
<b>G. Airframe Inspection</b>	
(3)	28. Perform airframe conformity and airworthiness inspections.
<b>II. Airframe Systems And Components</b>	
Teaching Level	Required Curriculum Topics
<b>A. Aircraft Landing Gear Systems</b>	
(3)	29. Inspect, check, service, and repair landing gear, retraction systems, shock struts, brakes, wheels, tires, and steering systems.
<b>B. Hydraulic and Pneumatic Power Systems</b>	
(2)	30. Repair hydraulic and pneumatic power systems components.
(3)	31. Identify and select hydraulic fluids.
(3)	32. Inspect, check, service, troubleshoot, and repair hydraulic and pneumatic power systems.
<b>C. Cabin Atmosphere Control Systems</b>	
(1)	33. Inspect, check, troubleshoot, service, and repair heating, cooling, air conditioning, pressurization systems, and air cycle machines.
(1)	34. Inspect, check, troubleshoot, service, and repair heating, cooling, air-conditioning, and pressurization systems.
(2)	35. Inspect, check, troubleshoot, service and repair oxygen systems.
<b>D. Aircraft Instrument Systems</b>	
(1)	36. Inspect, check, service, troubleshoot, and repair electronic flight instrument systems and both mechanical and electrical heading, speed, altitude, temperature, pressure, and position indicating systems to include the use of built-in test equipment.
(2)	37. Install instruments and perform a static pressure system leak test.

<b>II. Airframe Systems And Components (Continued)</b>	
<b>Teaching Level</b>	<b>Required Curriculum Topics</b>
<b>E. Communication and Navigation Systems</b>	
(1)	38. Inspect, check, and troubleshoot autopilot, servos and approach coupling systems.
(1)	39. Inspect, check, and service aircraft electronic communication and navigation systems, including VHF passenger address interphones and static discharge devices, aircraft VOR, ILS, LORAN, radar beacon transponders, flight management computers, and GPWS.
(2)	40. Inspect and repair antenna and electronic equipment installations.
<b>F. Aircraft Fuel Systems</b>	
(1)	41. Check and service fuel dump systems.
(1)	42. Perform fuel management transfer, and defueling.
(1)	43. Inspect, check, and repair pressure fueling systems.
(2)	44. Repair aircraft fuel system components.
(2)	45. Inspect and repair fluid quantity indicating systems.
(2)	46. Troubleshoot, service, and repair fluid pressure and temperature warning systems.
(3)	47. Inspect, check, service, troubleshoot, and repair aircraft fuel systems.
<b>G. Aircraft Electrical Systems</b>	
(2)	48. Repair and inspect aircraft electrical system components; crimp and splice wiring to manufacturers' specifications; and repair pins and sockets of aircraft connectors.
(3)	49. Install, check, and service airframe electrical wiring, controls, switches, indicators, and protective devices.
(3)	50.a. Inspect, check, troubleshoot, service, and repair alternating and direct current electrical systems.
(1)	50.b. Inspect, check, and troubleshoot constant speed and integrated speed drive generators.
<b>H. Position and Warning Systems</b>	
(2)	51. Inspect, check, and service speed and configuration warning systems, electrical brake controls, and anti-skid systems.
(3)	52. Inspect, check, troubleshoot, and service landing gear position indicating and warning systems.
<b>I. Ice and Rain Control Systems</b>	
(2)	53. Inspect, check, troubleshoot, service, and repair airframe ice and rain control systems.
<b>J. Fire Protection Systems</b>	
(1)	54. Inspect, check, and service smoke and carbon monoxide detection systems.
(3)	55. Inspect, check, service, troubleshoot, and repair aircraft fire detection and extinguishing systems.

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[1] EFFECTIVE DATE: 10/31/2017, [2] AMENDMENT #: 1  
DATE: 2017.10.31 10:18:26 -05:00

3. I hereby accept and receive the Operations Specifications in this paragraph.

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Geoffrey, Patrick, Agent for Service

A handwritten date "11/01/17" in red ink, written over a horizontal line.

Date



**B004 . Required Minimum Curriculum for Powerplant (Part 147 Appendix D)**

**HQ Control: 11/21/2014**

**HQ Revision: 000**

- a. The certificate holder must develop, for FAA approval, a curriculum covering the following elements for conducting training for mechanic certification and ratings in accordance with 14 CFR Parts 65 and 147.
- b. The certificate holder must determine and certify each applicant's eligibility and experience requirements prior to testing for the issuance of a graduation certificate or a certificate of completion.
- c. Part 147 Appendix D lists the subjects required in at least 750 hours of each powerplant curriculum, in addition to at least 400 hours in general curriculum subjects. The number in parentheses before each item listed under each subject heading indicates the level of proficiency at which that item must be taught.

**Table 1 - Powerplant Subjects and Topics**

<b>I. Powerplant Theory and Maintenance</b>	
<b>Teaching Level</b>	<b>Required Curriculum Topics</b>
<b>A. Reciprocating Engines</b>	
(1)	1. Inspect and repair a radial engine.
(2)	2. Overhaul reciprocating engine.
(3)	3. Inspect, check, service, and repair reciprocating engines and engine installations.
(3)	4. Install, troubleshoot, and remove reciprocating engines.
<b>B. Turbine Engines</b>	
(2)	5. Overhaul turbine engine.
(3)	6. Inspect, check, service, and repair turbine engines and turbine engine installations.
(3)	7. Install, troubleshoot, and remove turbine engines.
<b>C. Engine Inspection</b>	
(3)	8. Perform powerplant conformity and airworthiness inspections.
<b>II. Powerplant Systems and Components</b>	
<b>A. Engine Instrument Systems</b>	
(2)	9. Troubleshoot, service, and repair electrical and mechanical fluid rate-of-flow indicating systems.
(3)	10. Inspect, check, service, troubleshoot, and repair electrical and mechanical engine temperature, pressure, and rpm indicating systems.
<b>B. Engine Fire Protection Systems</b>	
(3)	11. Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems.

<b>II. Powerplant Systems and Components (Continued)</b>	
<b>Teaching Level</b>	<b>Required Curriculum Topics</b>
<b>C. Engine Electrical Systems</b>	
(2)	12. Repair engine electrical system components.
(3)	13. Install, check, and service engine electrical wiring, controls, switches, indicators, and protective devices.
<b>D. Lubrication Systems</b>	
(2)	14. Identify and select lubricants.
(2)	15. Repair engine lubrication system components.
(3)	16. Inspect, check, service, troubleshoot, and repair engine lubrication systems.
<b>E. Ignition and Starting Systems</b>	
(2)	17. Overhaul magneto and ignition harness.
(2)	18. Inspect, service, troubleshoot, and repair reciprocating and turbine engine ignition systems and components.
(3)	19a. Inspect, service, troubleshoot, and repair turbine engine electrical starting systems.
(1)	19b. Inspect, service, and troubleshoot turbine engine pneumatic starting systems.
<b>F. Fuel Metering Systems</b>	
(1)	20. Troubleshoot and adjust turbine engine fuel metering systems and electronic engine fuel controls.
(2)	21. Overhaul carburetor.
(2)	22. Repair engine fuel metering system components.
(3)	23. Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine fuel metering systems.
<b>G. Engine Fuel Systems</b>	
(2)	24. Repair engine fuel system components.
(3)	25. Inspect, check, service, troubleshoot, and repair engine fuel systems.
<b>H. Induction and Engine Airflow Systems</b>	
(2)	26. Inspect, check, troubleshoot, service, and repair engine ice and rain control systems.
(1)	27. Inspect, check, service, troubleshoot and repair heat exchangers, superchargers, and turbine engine airflow and temperature control systems.
(3)	28. Inspect, check, service, and repair carburetor air intake and induction manifolds.

<b>II. Powerplant Systems and Components (Continued)</b>	
<b>Teaching Level</b>	<b>Required Curriculum Topics</b>
<b>I. Engine Cooling Systems</b>	
(2)	29. Repair engine cooling system components.



(3)	30. Inspect, check, troubleshoot, service, and repair engine cooling systems.
<b>J. Engine Exhaust and Reverser Systems</b>	
(2)	31. Repair engine exhaust system components.
(3)	32a. Inspect, check, troubleshoot, service, and repair engine exhaust systems.
(1)	32b. Troubleshoot and repair engine thrust reverser systems and related components.
<b>K. Propellers</b>	
(1)	33. Inspect, check, service, and repair propeller synchronizing and ice control systems.
(2)	34. Identify and select propeller lubricants.
(1)	35. Balance propellers.
(2)	36. Repair propeller control system components.
(3)	37. Inspect, check, service, and repair fixed-pitch, constant-speed, and feathering propellers, and propeller governing systems.
(3)	38. Install, troubleshoot, and remove propellers.
(3)	39. Repair aluminum alloy propeller blades .
<b>L. Unducted Fans</b>	
(1)	40. Inspect and troubleshoot unducted fan systems and components.
<b>M. Auxiliary Power Units</b>	
(1)	41. Inspect, check, service, and troubleshoot turbine-driven auxiliary power units.

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[1] EFFECTIVE DATE: 10/31/2017, [2] AMENDMENT #: 1

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3. I hereby accept and receive the Operations Specifications in this paragraph.

A handwritten signature in dark ink, appearing to read "Geoffrey, Patrick".

Geoffrey, Patrick, Agent for Service

A handwritten date "11/01/17" in dark ink.

Date