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GENERAL CURRICULUM SUBJECTS Appendix B	Proficiency LEVEL (Note 1)	Trainer/Certifier Initials	Completion Date
<b>A. Basic Electricity</b>			
1. Calculate and measure capacitance and inductance.	(1)		
2. Calculate and measure electrical power.	(1)		
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.	(3)		
<b>B. Aircraft Drawings</b>			
7. Use aircraft drawings, symbols and system schematics.	(2)		
8. Draw sketches of repairs and alterations.	(3)		
9. Use blueprint information.	(3)		
10. Use graphs and charts.	(3)		
<b>C. Weight and Balance</b>			
11. Weigh aircraft.	(1)		
12. Perform complete weight and balance check and record data.	(3)		
<b>D. Fluid Lines and Fittings</b>			
13. Fabricate and install rigid and flexible fluid lines and fittings.	(3)		
<b>E. Materials and Processes</b>			
14. Identify and select appropriate non-destructive testing methods.	(1)		
15. Perform dye penetrant, eddy current, ultrasonic and magnetic particle inspections.	(2)		
16. Perform basic heat-treating processes.	(1)		
17. Identify and select aircraft hardware and materials.	(3)		
18. Inspect and check welds.	(3)		
19. Perform precision measurements.	(3)		
<b>F. Ground Operation and Servicing</b>			
20. Start, ground operate, move, service and secure aircraft and identify typical ground operation hazards.	(2)		
21. Identify and select fuels.	(2)		
<b>G. Cleaning and Corrosion Control</b>			
22. Identify and select cleaning materials.	(3)		
23. Inspect, identify, remove and treat aircraft corrosion and perform aircraft cleaning.	(3)		
<b>H. Mathematics</b>			
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.	(3)		

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<b>GENERAL CURRICULUM SUBJECTS</b> <b>Appendix B</b>		<b>Proficiency LEVEL</b> <small>(Note 1)</small>	<b>Trainer/Certifier Initials</b>	<b>Completion Date</b>
<b>I. Maintenance Forms and Records</b>				
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.	(3)			
<b>J. Basic Physics</b>				
30. Use and understand the principles of simple machines; sound, fluid, and heat dynamics; basic aerodynamics; aircraft structures; and theory of flight.	(2)			
<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, publications and related Federal Aviation Regulations, Airworthiness Directives and Advisory materials.	(3)			
<b>L. Mechanic Privileges and Limitations</b>				
32. Understand mechanic privileges within the limitations prescribed by FAR 65.	(3)			
<b>AIRFRAME CURRICULUM SUBJECTS</b> <b>Appendix C</b>		<b>Proficiency LEVEL</b> <small>(Note 1)</small>	<b>Trainer/Certifier Initials</b>	<b>Completion Date</b>
<b>I. AIRFRAME STRUCTURES</b>				
<b>A. Aircraft Finishes</b>				
1. Apply trim, letters and touchup paint.	(1)			
2. Identify and select aircraft finishing materials.	(2)			
3. Apply finishing materials.	(2)			
4. Inspect finishes and identify defects.	(2)			
<b>B. Sheet Metal and Non-Metallic Structures</b>				
5. Select, install, and remove special fasteners for metallic, bonded and composite structures.	(2)			
6. Inspect, test, and repair fiberglass, plastics, honeycomb, composite and laminated primary and secondary structures.	(2)			
7. Inspect, check, service, and repair windows, doors and interior furnishings.	(2)			
8. Inspect and repair sheet-metal structures.	(3)			
9. Install conventional rivets.	(3)			
10. Form, lay out and bend sheet-metal.	(3)			
<b>C. Welding</b>				
11. Understand the principles of welding: magnesium, titanium, stainless steel and aluminum.	(1)			

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AIRFRAME CURRICULUM SUBJECTS Appendix C	Proficiency LEVEL (Note 1)	Trainer/Certifier Initials	Completion Date
<b>D. Assembly and Rigging</b>			
12. Rig rotary-wing aircraft.	(1)		
13. Rig fixed-wing aircraft.	(1)		
14. Check alignment of structures.	(1)		
15. Assemble aircraft components, including flight control surfaces.	(3)		
16. Balance, rig and inspect movable primary and secondary flight control surfaces.	(3)		
17. Jack aircraft.	(3)		
<b>E. Airframe Inspection</b>			
18. Perform airframe conformity and airworthiness inspections.	(3)		
<b>II. AIRFRAME SYSTEMS AND COMPONENTS</b>			
<b>A. Aircraft Landing Gear Systems</b>			
19. Inspect, check, service, and repair landing gear, retraction systems, shock struts, brakes, wheels, tires and steering systems.	(3)		
<b>B. Hydraulic and Pneumatic Power Systems</b>			
20. Identify and select hydraulic fluids.	(3)		
21. Inspect, check, service, troubleshoot and repair hydraulic and pneumatic power systems.	(3)		
<b>C. Cabin Atmosphere Control Systems</b>			
22. Inspect, check, troubleshoot, service and repair heating, cooling, air-conditioning and pressurization systems.	(2)		
23. Inspect, check, troubleshoot, service and repair oxygen systems.	(2)		
<b>D. Aircraft Instrument Systems</b>			
24. 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.	(1)		
25. Install instruments and perform a static pressure system leak test.	(2)		
<b>E. Communication and Navigation Systems</b>			
26. Inspect, check and troubleshoot autopilot, servos and approach coupling systems.	(1)		
27. 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.	(1)		
28. Inspect and repair antenna and electronic equipment installations.	(2)		

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AIRFRAME CURRICULUM SUBJECTS Appendix C	Proficiency LEVEL (Note 1)	Trainer/Certifier Initials	Completion Date
<b>F. Aircraft Fuel Systems</b>			
29. Check and service fuel dump systems.	(1)		
30. Perform fuel management, transfer and defueling.	(1)		
31. Inspect, check, and repair pressure fueling systems.	(1)		
32. Inspect and repair fluid quantity indicating systems.	(2)		
33. Troubleshoot, service and repair fluid pressure and temperature warning systems.	(2)		
34. Inspect, check, service, troubleshoot and repair aircraft fuel systems.	(3)		
<b>G. Aircraft Electrical Systems</b>			
35. Repair and inspect aircraft electrical system components; crimp and splice wiring to manufacturers' specifications; and repair pins and sockets of aircraft connectors.	(2)		
36. Install, check and service airframe electrical wiring, controls, switches, indicators and protective devices.	(3)		
37. Inspect, check, troubleshoot, service and repair alternating and direct current electrical systems.	(3)		
38. Inspect, check and troubleshoot constant speed and integrated speed drive generators.	(1)		
<b>H. Position and Warning Systems</b>			
39. Inspect, check and service speed and configuration warning systems, electrical brake controls and anti-skid systems.	(1)		
40. Inspect, check, troubleshoot and service landing gear position indicating and warning systems.	(1)		
<b>I. Ice and Rain Control Systems</b>			
41. Inspect, check, troubleshoot, service and repair airframe ice and rain control systems.	(2)		
<b>J. Fire Protection Systems</b>			
42. Inspect, check and service smoke and carbon monoxide detection systems.	(1)		
43. Inspect, check, troubleshoot and repair aircraft fire detection and extinguishing systems.	(3)		

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POWERPLANT CURRICULUM SUBJECTS Appendix D	Proficiency LEVEL (Note 1)	Trainer/Certifier Initials	Completion Date
<b>I. POWERPLANT THEORY AND MAINTENANCE</b>			
<b>A. Reciprocating Engines</b>			
1. Troubleshoot, service and repair reciprocating engines and engine installations.	(2)		
2. Remove and Install reciprocating engines.	(2)		
<b>B. Turbine Engines</b>			
3. Troubleshoot, service and repair turbine engines and turbine engine installations.	(3)		
4. Remove and Install turbine engines.	(3)		
<b>C. Engine Inspection</b>			
5. Perform powerplant conformity and airworthiness inspections.	(3)		
<b>II. POWERPLANT SYSTEMS AND COMPONENTS</b>			
<b>A. Engine Instrument Systems</b>			
6. Troubleshoot, service and repair electrical and mechanical fluid rate-of-flow indicating systems.	(2)		
7. Inspect, check, service, troubleshoot and repair electrical and mechanical engine temperature, pressure and R.P.M. indicating systems.	(3)		
<b>B. Engine Fire Protection Systems</b>			
8. Inspect, check, service, troubleshoot and repair engine fire detection and extinguishing systems.	(3)		
<b>C. Engine Electrical Systems</b>			
9. Repair engine electrical system components.	(2)		
10. Install, check and service engine electrical wiring, controls, switches, indicators and protective devices.	(3)		
<b>D. Engine Lubricating Systems</b>			
11. Identify and select lubricants.	(2)		
12. Inspect, check, service, troubleshoot and repair engine lubrication systems.	(3)		
<b>E. Ignition and Starting Systems</b>			
13. Inspect, service, troubleshoot and repair reciprocating and turbine engine ignition systems and components.	(2)		
14. Inspect, service, troubleshoot and repair turbine engine electrical starting systems.	(3)		
15. Inspect, service and troubleshoot turbine engine pneumatic starting systems.	(1)		

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POWERPLANT CURRICULUM SUBJECTS Appendix D	Proficiency LEVEL (Note 1)	Trainer/Certifier Initials	Completion Date
<b>F. Fuel Metering Systems</b>			
16. Troubleshoot and adjust turbine engine fuel metering systems and electronic engine fuel controls.	(1)		
17. Inspect, check, service, troubleshoot and repair reciprocating and turbine engine fuel metering systems.	(3)		
<b>G. Engine Fuel Systems</b>			
18. Inspect, check, service, troubleshoot and repair engine fuel systems.	(3)		
<b>H. Induction and Airflow Systems</b>			
19. Inspect, check, troubleshoot, service and repair engine ice and rain control systems.	(1)		
20. Inspect, check, troubleshoot, service and repair heat exchangers, supercharger and turbine engine airflow and temperature control systems.	(1)		
21. Inspect, check, service and repair carburetor air intake and induction manifolds.	(1)		
<b>I. Engine Cooling Systems</b>			
22. Inspect, check, troubleshoot, service and repair engine cooling systems.	(1)		
<b>J. Engine Exhaust System Components</b>			
23. Inspect, check, troubleshoot, service and repair engine exhaust systems.	(3)		
24. Troubleshoot and repair engine thrust reverser systems and related components.	(1)		
<b>K. Propellers/Rotors</b>			
25. Inspect, check, service and repair propeller/rotor synchronizing and ice control systems.	(1)		
26. Identify and select propeller/rotor lubricants.	(2)		
27. Balance propellers/rotor.	(1)		
28. Repair propeller/rotor control system components.	(2)		
29. Inspect, service and repair propellers/rotors and propeller/rotor governing systems.	(2)		
30. Install, troubleshoot and remove propellers/rotors.	(3)		
31. Repair aluminum alloy blades.	(2)		
<b>L. Auxiliary Power Units</b>			
32. Inspect, check, service and troubleshoot turbine-driven auxiliary power units.	(2)		

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AVIATION SAFETY CURRICULUM SUBJECTS	Proficiency LEVEL (Note 1)	Trainer/Certifier Initials	Completion Date
<b>A. Aviation Safety</b>			
1. Fuels, lubricants and hydraulic fluids.	(1)		
2. Flammable cements, rosins, sealants, paints and thinners.	(1)		
3. Fluids under pressure.	(1)		
4. Compressed gasses, including oxygen.	(1)		
5. Batteries.	(1)		
6. Aviation ordnance and pyrotechnics.	(1)		
7. Electrical and electronic circuits.	(1)		
8. Operating radio transmitters and radar systems.	(1)		
9. Hazardous noise sources.	(1)		

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### URE Exam Proctor Log

Air University Online Specialized Course	Exam Proctor Printed Name, Rank/Grade, A&P #	Exam Proctor Signature	Exam Date
<b>02AF1 Airframe and Powerplant Mechanic – General</b>			
<b>Volume 1</b>			
<b>Unit 1. Mathematics</b>			
<b>Unit 2. Aircraft Drawings</b>			
<b>Unit 3. Aircraft Weight and Balance</b>			
<b>Unit 4. Fuels and Fuel Systems</b>			
<b>Volume 2</b>			
<b>Unit 1. Fluid Lines and Fittings</b>			
<b>Unit 2. Aircraft Hardware and Materials</b>			
<b>Unit 3. Corrosion Inspection and Cleaning</b>			
<b>Unit 4. Metals Technology</b>			
<b>Volume 3</b>			
<b>Unit 1. Physics</b>			
<b>Unit 2. Basic Electricity</b>			
<b>Unit 3. Aircraft Generators and Motors</b>			
<b>Volume 4</b>			
<b>Unit 1. Inspection Fundamentals</b>			
<b>Unit 2. Ground Handling, Safety, and Support Equipment</b>			
<b>Unit 3. Handtools and Measuring Devices</b>			

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<b>02AF2 Airframe and Powerplant Mechanic – Airframe</b>			
<b>Volume 1</b>			
<b>Unit 1. Aircraft Structures</b>			
<b>Unit 2. Assembly and Rigging</b>			
<b>Unit 3. Aircraft Fabric Covering</b>			
<b>Unit 4. Aircraft Painting and Finishing</b>			
<b>Volume 2</b>			
<b>Unit 1. Aircraft Structural Repairs</b>			
<b>Unit 2. Aircraft Welding</b>			
<b>Volume 3</b>			
<b>Unit 1. Ice and Rain Protection</b>			
<b>Unit 2. Hydraulic and Pneumatic Systems</b>			
<b>Unit 3. Landing Gear Systems</b>			
<b>Unit 4. Fire Protection Systems</b>			
<b>Volume 4</b>			
<b>Unit 1. Aircraft Electrical Systems</b>			
<b>Unit 2. Aircraft Instrument Systems</b>			
<b>Unit 3. Communication and Navigation Systems</b>			
<b>Unit 4. Cabin Atmosphere Control System</b>			

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<b>02AF3 Airframe and Powerplant Mechanic – Powerplant</b>			
<b>Volume 1</b>			
<b>Unit 1. Theory and Construction of Aircraft Engines</b>			
<b>Unit 2. Induction and Exhaust Systems</b>			
<b>Unit 3. Engine Fuel and Fuel Metering Systems</b>			
<b>Volume 2</b>			
<b>Unit 1. Engine Ignition and Electrical Systems</b>			
<b>Unit 2. Engine Starting Systems</b>			
<b>Unit 3. Lubrication and Cooling Systems</b>			
<b>Unit 4. Propellers</b>			
<b>Volume 3</b>			
<b>Unit 1. Engine Removal and Replacement</b>			
<b>Unit 2. Engine Fire Protection Systems</b>			
<b>Unit 3. Engine Maintenance and Operation</b>			