Projects Frequently Given

Not in order of curriculum

The following **is not** a complete list however it is a good sampling of items that an applicant **should be** familiar with and able to accomplish.

You should be familiar with the following. Each initial examination has 9 General projects, 11 Airframe projects, and 11 Powerplant projects. 70% or better for each curriculum must be accomplished to pass. 7 of 9, 8 of 11, and 8 of 11 respectively.

For inspection items it would be wise to establish good inspection techniques such as the proper use of a flash light, mirror, and magnifying glass, 14 CFR Part 43 Appendix D. Have a clear understanding of the concept of airworthiness.

- Use a multi-meter; check for opens, shorts, resistance, voltage drops, or continuity in a circuit or component.
- Be able to calculate voltage, resistance, current, and voltage drops using ohms law.
- Calculate capacitance in a circuit.
- Using the FAA website, be able to create a summary of airworthiness directives for a particular make and model of an aircraft, engine, or other component.
- Determine the applicability of an airworthiness directive, both one time and recurring.
- Complete logbook entries for 100hr inspections, minor repairs or maintenance.
- Complete the FAA form 337.
- Determine the applicability of 14 CFR Parts 1, 3, 21, 23, 39, 43, 45, 47, 65, 91, and various advisory circulars.
- Find torque values, correct use of a torque wrench, and torquing of nuts and bolts.
- Use and read a micrometer and vernier caliper.
- Inspect and interpret airworthiness of woods, dope and fabric, and sheet metal.
- Bend Sheetmetal, calculate bend allowances, calculate rivet spacing, repair a damaged sheet metal surface.
- Interpret blueprints and illustrated parts catalogs, and make rough sketches of repairs.
- Remove and replace a flight control.
- Check control surface travel.
- Check and adjust cable tension.
- Safety wire turnbuckles.
- Create inspection checklists and perform inspection of systems and components.
- Remove and replace brake assemblies, replace brake linings.
- Remove and replace tires from wheels, service bearings.
- Service brake systems, pressure and gravity methods.
- Service hydraulic reservoirs.
- Remove and replace aircraft batteries. (service batteries)
- Remove and replace a cylinder from an engine.
- Check magneto internal timing, or time the magnetos to an engine.
- Perform a compression test on an engine.
- Service spark plugs.
- Perform a conformity inspection on an aircraft, engine or component.
- Check propeller blade angle using a universal propeller protractor.
- Check, inspect, and dress nicks in a propeller.
- Check thermocouples,
- Splice a wire, install connectors, remove and replace circuit breakers or fuses.
- Demonstrate the starting procedures and run an engine.

Again, this is not a complete list but a good sampling of the typical type of projects that are given for a test. Differences are in the aircraft, training aids, and equipment being used by the DME.

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