



This document contains a comprehensive list of all twelve Choose Aerospace Courses and Modules.

- Each course contains the following:
 - Course pre-test
 - Course introduction
 - Course modules
 - Course comprehensive assessment
 - Course survey
- Each module contains the following:
 - Key concepts and terms
 - Module lessons
 - Further study
 - Module quiz
 - Module critical thinking activity
- Each lesson contains the following:
 - Lesson objectives
 - Video lecture
 - Interactive animations and activities
 - Assigned readings in the applicable FAA 8083-30B chapter
 - Summary and key terms
 - Assessment activities



Course 1: Safety, Ground Operations, and Servicing

Module 1: *Shop and Flight Line Safety and Fire Protection*

Module 2: *Tiedown Procedures and Ground Operations*

Module 3: *Servicing and Fuel Servicing of Aircraft*

Course 2: Hand Tools and Measuring Devices

Module 1: *General Purpose Hand Tools*

Module 2: *Metal Cutting Tools*

Module 3: *Layout and Measuring Tools*

Course 3: Mathematics

Module 1: *Basic Math*

Module 2: *Advanced Math*

Course 4: Physics for Aviation

Module 1: *Matter, Energy, and Simple Machine*

Module 2: *Stress, Motion, Heat, Pressure, and Gas*

Module 3: *Fluid Mechanics, Sound, and the Atmosphere*

Module 4: *Theory of Flight*

Course 5: Aircraft Drawings

Module 1: *Computer Graphics and Aviation Drawings*

Module 2: *Illustration Methods and Meanings of Symbols*

Module 3: *Reading, Interpreting, and Storing Drawings*



Course 6: Weight and Balance

Module 1: *Weight and Balance Control*

Module 2: *Procedures for Weight and Balance*

Module 3: *Loading and Extreme Conditions*

Course 7: Maintenance and Inspection Regulations

Module 1: *Maintenance, Inspections, and Mechanic Privileges*

Module 2: *Performing and Recording Maintenance and Inspections*

Module 3: *Products, Parts and LSA*

Module 4: *Maintenance Ethics and Human Factors*

Course 8: Fluid Lines and Fittings

Module 1: *Rigid Fluid Lines*

Module 2: *Flexible Hose Fluid Lines*

Course 9: Materials, Hardware, and Processes

Module 1: *Aircraft Metals and Non-Metallic Materials*

Module 2: *Inspection Techniques*

Module 3: *Aircraft Hardware*

Module 4: *Welding and Soldering*

Course 10: Cleaning and Corrosion Control

Module 1: *Types and Forms of Corrosion*

Module 2: *Inspection and Removal of Metal Corrosion*

Module 3: *Processes and Materials Used in Corrosion Control*



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Course 11: Fundamentals of DC Electricity and Electronics

Module 1: *Fundamentals of Electricity*

Module 2: *DC Circuits*

Module 3: *Circuit Measuring Instruments*

Module 4: *Batteries*

Course 12: Fundamentals of AC Electricity and Electronics

Module 1: *Aircraft Alternating Current*

Module 2: *Generators, Motors, and Alternators*

Module 3: *Electronics and Logic*

Module 4: *Measuring Devices*