



Aviation Maintenance Curriculum

Aircraft Drawings Syllabus

Summary:

This course will help you understand how detailed and complex information is communicated visually through the use of documents such as drawings, schematics, diagrams, flowcharts, charts, graphs, and images. Furthermore, you will learn how to recognize the meaning of the types of lines, symbols, and tables of data that may be present on these documents. Lastly, you will be introduced to the different methods of creating, storing, and accessing drawings, diagrams, and schematics. Drawings and imagery serve a critical role in the manufacturing, maintenance, and repair of aircraft. At the conclusion of this course, you will have developed an understanding of the critical role that drawings serve in aviation and gained the ability to read and interpret these important documents.

Course Number:

FAA-ACS-AM-IB-ACD

ACS Reference:

Aircraft Drawings (AM.I.B)

Topics Covered:

1. Computer Graphics and Aviation Drawings
2. Illustration Methods and Meanings of Symbols and Lines
3. Reading, Interpreting, and Storing Drawings

Activities:

- A. Creating a repair sketch

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Fundamentals of Electricity and Electronics Course Outline

Module 1: Computer Graphics and Aviation Drawings

- Lesson 1.1 – Introduction to Aircraft Drawings
- Lesson 1.2 – Types of Drawings
- Lesson 1.3 – Title Blocks and Universal Numbering System
- Lesson 1.4 – Bill of Material and Other Drawing Data

Module 2: Illustration Methods and Meanings of Symbols

- Lesson 2.1 – Methods of Illustration: Drawings
- Lesson 2.2 – Methods of Illustration: Diagrams and Flowcharts
- Lesson 2.3 – Lines and Drawing Symbols

Module 3: Reading, Interpreting, and Storing Drawings

- Lesson 3.1 – Interpreting Drawings and Sketches
- Lesson 3.2 – Equipment, Visual Data, and Storage

Each lesson contains the following:

- Video lecture
- Multiple readings with interactive animations
- Assigned readings in the applicable FAA 8083 Chapter
- Activities
- Summary Points and Key Terms

Each Module contains the following:

- Summary Points and Key Terms
- Module quiz
- Module Critical Thinking Activity

Educate Workforce Simulations included in this course include:

- Creating a repair sketch

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