

Course Description

AMT0044 | Tools, Materials, and Processes 1 | 1.33 credits

This course provides an introduction to the tools, hardware and material used in aircraft maintenance, repair, and safety. The student will be able to understand the information found in aircraft drawings, blueprints, charts and graphs Including stress materials' internal resistance and counterforce that opposes deformation.

Course Competencies:

Competency 1: The student will demonstrate knowledge of aircraft drawings, prints and engineering documents by:

1. Identifying drawing types
2. Showing various forms of illustration methods
3. Creating and illustrating drawing practices

Competency 2: The student will demonstrate knowledge of materials and processes by:

1. Defining basic composite materials
2. Identifying typical composite applications
3. Examining the advantages and disadvantages of composite materials

Competency 3: The student will demonstrate health and safety by:

1. Identifying the proper personal protective equipment
2. Demonstrating the proper storage and handling of materials
3. Identifying the proper disposal of materials

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information