



## **Course Description**

### **AMT0047 | Applying the Design Process | 1.76 credits**

In this course, the student will learn to create aircraft drawings, blueprints, charts and graphs; test equipment, including non-destructive inspection and testing; and determine best practices with respect to sealants and epoxies. Prerequisites: AMT0044 and AMT0045.

### **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 test equipment, including Non- Destructive Inspection and Testing by:

1. Defining the common inspection & test techniques
2. Identifying the typical test equipment used to perform actual tests
3. Performing actual tests and interpreting results

**Competency 3:** The student will demonstrate a knowledge of good practices with respect to Sealants & Epoxies by:

1. Identifying the proper applications of certain sealants & epoxy materials
2. Demonstrating the proper storage and handling of materials
3. Identifying the proper disposal of materials
4. Performing actual applications in a safe manner

### **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