

AIRCRAFT STRUCTURAL TECHNOLOGIES

200 Hours

Prerequisites:
Passing English entrance exam.

Curriculum Resources: books, etc:
In-house text book provided.

Course Overview

This program is an introduction to aircraft structural maintenance fundamentals. You will be introduced to aircraft characteristics as well as aerodynamics and will learn the different technical repair data used in industry and government Maintenance, Repair and Overhaul (MRO) facilities. You will learn to use hand tools, powered tools, powered and non-powered manufacturing equipment used in aviation structural maintenance and will cover basic shop math, aircraft corrosion identification, control, and prevention.

You will gain familiarization with conventional and special fasteners, metal layout and forming techniques, basic structural repairs paired with specific technical guidelines and will gain an understanding of general shop safety policies and practices, Personal Protective Equipment (PPE) and will make a habit of safety management in the process.

Course Goals & Objectives

By the end of this course, the student should be able to:

- Students will be able to demonstrate certain aspects of Aviation safety and knowledge.
- Students will have a basic introductory knowledge governing Airframe Repair and will be able to transpose theory to practical applications.
- Students will construct airframe repairs; show knowledge of layout and manufacturing procedures; show knowledge using hand tools, powered tools, and powered and non-powered equipment; show knowledge of proper hole drilling techniques as well as fastener installation.
- Students will be able to identify errors, correct errors and apply knowledge to future manufacturing techniques. If students are unable to remember certain aspects, they will be able to identify specific aircraft technical manuals for reference.

Teaching Philosophy:

We believe that instructors, staff, and administrators have a shared responsibility to provide: 1) innovative course design and instruction; 2) a safe, learner-centered environment; and 3) an authentic learning experience.

Evaluation Methods:

Student success is based on participation in class activities and the completion of exercises. A certificate of completion requires 100% attendance and completion of all assigned activities.

Grading Policy:

Student success is based on participation in class activities and the completion of exercises. A certificate of completion requires successful completion of all assigned work within the established time frame.

Types of graded assignments will be projects, review questions, activities and assignments.

S = Satisfactory U = Unsatisfactory

A course grade of Unsatisfactory does not qualify the course as a prerequisite to other courses.

Participants Responsibilities:

To ensure a quality and safe learning environment, students are required to follow the Student Behavior policy found online at www.middletech.com/student-services/student-handbook

(405) 739-1712
middletech.com
1621 Maple Dr.
Midwest City, OK 73110



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