

FLUID SYSTEMS TECHNICIAN

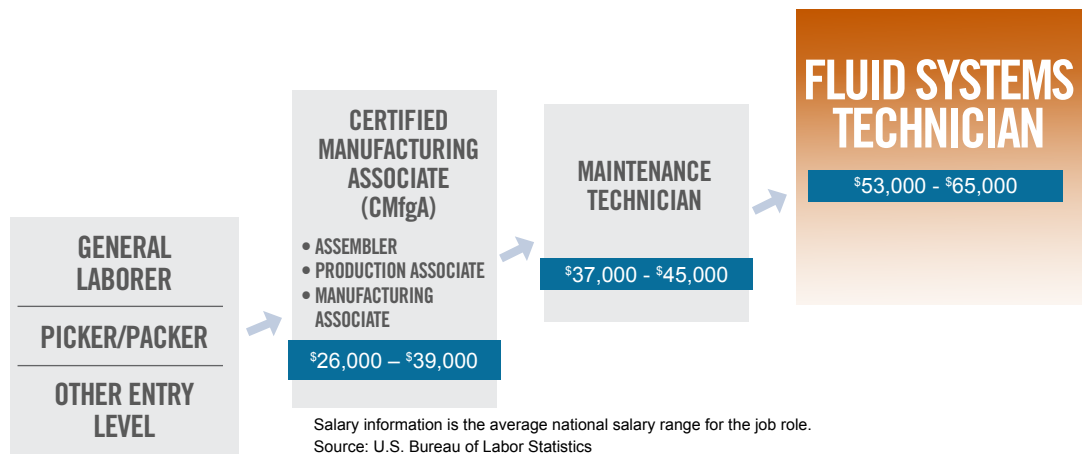


PREPARE FOR A CAREER AS A FLUID SYSTEMS TECHNICIAN

Fluid Systems Technicians work with equipment that utilizes the pressure of a liquid or gas in a closed container to transmit, multiply, or control power. They assemble, install, maintain, and test fluid power equipment.

Upon completion of this program, students will have an understanding of:

- CNC control panel functions
- AC and DC power sources
- Hydraulic power sources and variables
- Pneumatic power sources and variables
- Welding processes and welding safety procedures
- Electrical instruments and circuits
- Control devices, including switches and sensors



The average national salary range for fluid systems technicians is **\$53,000 - \$65,000**

Source: U.S. Bureau of Labor Statistics



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These are the Units and Courses required to complete the Fluid Systems Technician program:

Unit 1: CNC & Electrical Systems 1

- Introduction to CNC Machines
- Control Panel Functions for the CNC Lathe
- AC Fundamentals
- AC Power Sources
- DC Circuit Components
- DC Power Sources

Unit 2: Motor Controls

- Benchwork and Layout Operations
- Control Devices
- Distribution Systems
- Limit Switches and Proximity Sensors
- Relays, Contactors, and Motor Starters

Unit 3: Welding I

- Introduction to Welding
- Introduction to Welding Processes
- Welding Safety Essentials
- Electrical Safety for Welding
- PPE for Welding
- Welding Fumes and Gases Safety

Unit 4: Electrical Systems 2

- Conductor Selection
- Electrical Instruments
- Electrical Print Reading
- Introduction to Circuits
- Introduction to Magnetism
- NEC® Overview

Unit 5: Hydraulics

- Hydraulic Control Valves
- Hydraulic Fluid Selection
- Hydraulic Power Sources
- Hydraulic Power Variables
- Hydraulic Principles and System Design
- Hydraulic Schematics and Basic Circuit Design

Unit 6: Pneumatic

- Pneumatic Control Valves
- Pneumatic Power Sources
- Pneumatic Power Variables
- Pneumatic Schematics and Basic Circuit Design
- Actuator Applications
- Contamination and Filter Selection

Unit 7: Welding II

- What Is Oxyfuel Welding?
- Oxyfuel Welding Applications
- GMAW Applications
- Overview of Soldering
- Plasma Cutting
- SMAW Applications

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