



Snead State
Community College
Workforce Development

Self-Pace Online Training
\$100.00 per student

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Fluid Power Systems for Manufacturing Technicians

This course in fluid power systems prepares learners to work intelligently in industry with pneumatic and hydraulic applications. It introduces basic pneumatic and hydraulic power and takes learners through key topics and skills in fluid power and safety, circuits, schematics, principles of fluid power pressure and flow, and speed control circuits. It covers pressure regulation, filtration, how to connect circuits, cylinders, valves, and actuators, pressure and cylinder force, volume, and flow resistance.

- Basic Pneumatic Circuits
- Principles of Pneumatic Pressure and Flow
- Air Logic
- Air Compressors
- Pneumatic Power Systems
- Pneumatic System Construction
- Tubing and Component Installation
- Moving Loads Pneumatically
- Accumulator Applications
- Pneumatic DCV Applications
- Hydraulic DCV Applications
- Pneumatic Maintenance
- Troubleshooting Vacuum Systems
- Troubleshooting Actuators and Valves
- Introduction to Hydraulic Systems
- Principles of Hydraulic Pressure and Flow
- Basic Hydraulic Circuits
- Hydraulic Power Systems
- Hydraulic Cylinder Applications
- Hydraulic Relief Valve Operation
- Hydraulic Check Valve Applications
- Hydraulic Motor Applications
- Hydraulic Pump and Motor Performance
- Hydraulic Speed Control
- Troubleshooting Hydraulic Actuators and DCVs
- Fluids and Conditioning
- Fittings and Seals
- Hose and Clamping Devices
- Hydraulic Filter Maintenance
- Hydraulic Pump Troubleshooting