

Corporate Office

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Air Logic Pneumatics

Course Description: The course begins with safety followed by a brief review of basic fluid power principles and symbols. The construction, operation, and specific use of pneumatic components along with basic circuit design are then reviewed. Air Logic fundamentals are also covered. Troubleshooting then becomes the focus of the class. Troubleshooting methodology is provided using the pneumatic circuit to group and isolate the potential problems when symptoms such as improper speed, pressure, or sequencing have been identified. Reasons for failure of compressors, cylinders, regulators, flow controls, directional controls, motors, and other pneumatic accessories will be reviewed. Students will spend a large majority of class time designing and building circuits.

Prerequisites: Level 1 Pneumatics or equivalent knowledge

Textbook: Parker

Learning Objectives:

- Safety
- Review of pneumatic fundamentals
- Components
- Discuss the different types of dryers
- Air logic overview
- Differences between pressure, directional, and flow control valves
- Signal valves, sensors, and timers
- Types of vacuum components
- Logic valves
- Memory function
- Sequential control