

Motion & Control Involvement Training

Basic Pneumatic Technology Description and Course Outline

I. Program Description

SNO-Motion's Basic Pneumatic Technology course is a completely integrated three-day program during which the student discusses and works with the fundamental fluid power principles and formulas, and the functional characteristics of the complete spectrum of pneumatic components.

A. Aims/Objectives

In this course we:

- introduce participants to pneumatics as it relates to industrial machinery
- help the participants to understand how and why pneumatic component work
- help the participant to understand the importance of maintaining a pneumatic system for optimum work and efficiency

B. Major Topics Covered

- Pneumatic actuators
- Directional valves
- Air production and preparation
- Flow valves, quick exhaust valve
- Air distribution systems
- FRL (Filter, Regulator, and Lubricator)
- Hands-on work with pneumatic trainers

II. Who Should Participate

Maintenance personnel, engineers and anyone who desires to increase their basic knowledge of pneumatic components and systems.

III. Session Information

Classes are conducted several times per year. For scheduled dates, contact our offices.

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To Apply for Training Class on Line:
<http://www.sno-motion/trainingsignup.html>
and choose the appropriate class title.

Course Outline

I. First Day of Class

- A. Introductions
- B. Pre-examination
- C. Discussion on the characteristics of a pneumatic system versus a hydraulic system
- D. Video - "Introduction to Pneumatics"
- E. Gas Laws and basic principles
- F. Graphic symbology

II. Second Day of Class

- A. Compressed air production
- B. Compressors
- C. Aftercoolers, dryers and receivers
- D. Air distribution systems
- E. Directional valves

III. Third Day of Class

- A. Pneumatic actuators
- B. Pressure valves
- C. Filters, regulators and lubricators
- D. Lab session using Parker's pneumatic trainer