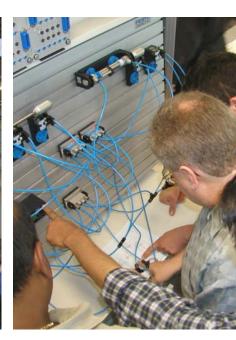
Training in Automation Didactic Course Schedule









Course Title	Dates
P111: Introduction to Pneumatics	August 19 – 21, 2008
P111: Introduction to Pneumatics	September 16 – 18, 2008
EP211: Introduction to Electropneumatics	September 30 – October 2, 2008

Course Fee \$936.00Course duration 3 days

• Hours 8:00 a.m. to 4:30 p.m.

Location
 Festo Technology / Learning Centre

5300 Explorer Drive Mississauga Ontario

Course materials, certificate of completion and lunches are provided.

For more information, refer to the detailed course syllabus. To discuss this further or to reserve seats, please contact:

Ms. June Davies
Didactic Coordinator

Festo Inc.

5300 Explorer Drive Mississauga, Ontario L4W 5G4

Tel 905 614 4627 Fax 905 624 9006 E-mail: june.davies @ca.festo.com www.festo.com

P111 Introduction to Pneumatics

Didactic Course









Course objectives and training aims

To increase the course participant's understanding of pneumatic systems and to create a strong base for troubleshooting. The participant shall be familiarized with the design, function and application of pneumatic controls and elements.

Target group

Maintenance and assembly personnel, skilled craftsmen, foremen, designers

Contents

- Physical principles of compressed air
- Compressed air production, preparation and distribution
- Standard ISO pneumatic symbology
- Operation and application of pneumatic drives and valves
- Circuit design and assembly
- Pressure and flow control
- Basic logic functions and applications
- Sequence control and memory circuits
- Pneumatic time dependent and pressure dependent control
- Safety issues
- Troubleshooting through circuit analysis
- Practical exercises and hands-on work

Prerequisites

General technical knowledge

Festo Inc.

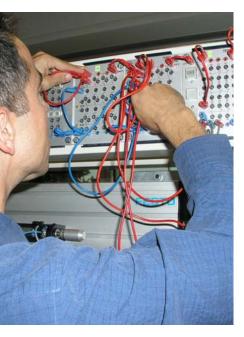
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EP211 Introduction to Electropneumatics Didactic Course









Course objectives and training aims

To familiarize the participant with the function and operation of pneumatic and electrical equipment used in simple electro-pneumatic controls. The course participant shall be able to troubleshoot electro-pneumatic systems and design simple controls.

Target group

Maintenance and assembly personnel, skilled craftsmen, foremen, designers

Contents

- Overview of electric and pneumatic symbols
- Electrical contact specifications and logic connections in ladder diagram circuits
- Solenoid valves and relays
- Interfacing electrical control systems and pneumatic power circuit
- Introduction to proximity sensors and switches
- Electro-pneumatic circuit design and assembly
- Discrete relay logic
- Single and continuous cycle
- Sequential and conditional control
- Motion diagram
- Safety issues
- Troubleshooting through circuit analysis
- Practical exercises and hands-on work

Prerequisites

P111 course (Introduction to Pneumatics) or equivalent

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