

PNEUMATIC TECHNOLOGY IN AUTOMATION

Location: Treacy's West County Hotel
Date: March 8th, 9th, 2023

STRUCTURE & CONTENT

Two-day course

Safety first – the dangers of compressed air, introducing careful practices and important directives.

Introduction to pneumatic systems – pressure, flow, air compression & distribution, leaks (energy saving).

Air treatment – introduction to airline equipment, contamination, filtration & separation, air quality standards, monitoring flow, regulating pressure, isolating, dumping & reinstatement of air.

Actuators – overview of the different actuator types, single & double acting, force calculation, cushioning, mounting, position detection.

Direction control valves – overview of valve types, functions, methods of operation, mounting and accessories.

Basic pneumatic circuits – understand the ISO 1219-2 standard for fluid power symbols, for valves, cylinders, FRLs etc and build pneumatic circuits.

Introduction to electro-pneumatics – basic principles of electricity, solenoid valves and how sensors and programmable logic controllers interact in pneumatic automation systems.

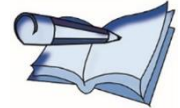
Optional: participants that enrol early have the option of two weeks access to our online digital learning platform [eLEARNING-200](#)

COURSE AIM

This course allows the learner to develop their skills in the fundamentals of pneumatics in industrial automation & the technologies that pneumatics interact with in control systems.



Theory



Design
Circuits



Practical
Build Circuits



Fault
Find

COURSE OUTCOME

Understand the function & prepare for the maintenance needs of pneumatic systems.

Ability to design & build pneumatic circuits.

Ability to troubleshoot pneumatic circuits & component faults.

Understand the interrelationship between pneumatics, vacuum, energy & automation control devices like sensors, PLC's, etc



Contact sales@smcautomation.ie



Booking Form

PNEUMATIC TECHNOLOGY IN AUTOMATION - March 8th, 9th, 2023

- Venue: Treacy's West County Hotel, Limerick Road, Ennis, Co. Clare, V95 C9CT
- Requirements: Participants should have a basic technical knowledge.
- Duration: 9.00am – 5.00pm both days. (start/finish times open to change to facilitate event)
- Documentation: Course handbook and certificate on completion.
- Equipment: The [SMC desktop pneumatic training kit](#).

If you wish to book a place on this course, please complete and return this form to;
email: sales@smcautomation.ie

Participant first name:

Participant surname:

Participant email address:

(note, this is required to set up optional eLEARNING-200)

Participant job title:

Company:

Company address:

Purchase order number:

Conditions:

- A place on this course will only be confirmed on receipt of an order no.
- Cancellation within 10 days of the course will result in 50% of the course fee being retained.
- On completion of the course, participants will be presented with a certificate of achievement.
- Subject to our general conditions of sale.



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