

PNEUMATIC TECHNOLOGY IN AUTOMATION

Location: WATERFORD
Venue: Viking Hotel.
Date: Nov 27th & 28th, 2024

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.

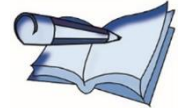
Introduction to electro-pneumatics – basic principles of electricity, solenoid valves and how sensors and programmable logic controllers interact in pneumatic automation systems.

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



Price: €750 for two-day course.
Email: sales@smcautomation.ie
Phone: 01/4039000 or your local sales engineer



Booking Form

PNEUMATIC TECHNOLOGY IN AUTOMATION – Nov 27th & 28th , 2024

Venue: Viking Hotel - WATERFORD

Course Fee: €750 per person per course - includes course, materials, lunch & refreshments.
(note, course fee does not include transport, accommodation, evening meal or other expenses)

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 name:

Participant email address:

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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Please check your local Skillnet for funding towards this course.

<https://www.skillnetireland.ie/skillnet-business-network/networks>

