

# Pneumatics Training Course

## Technical Training



### By attending this 2-day Training Course:

Your organisation will begin to save money significantly beyond the cost of this course as the course aim is to maximise production time by minimising downtime. For too many years we have witnessed cases whereby a basic lack of understanding of the principles of Industrial Pneumatics has led to significant losses of production – which in turn affects your organisation's bottom line!

Furthermore, attempting to repair a minor pneumatic problem without understanding the basic principles may lead to a major failure of your machinery or process, resulting in the machine or process going down hard. This, of course, compounds your problems by giving your organisation the additional headache of excessive product wastage, an expensive repair bill and lost production time.

### Course Overview:

- Principals of Fluid Power Systems
- Comparing Pneumatics & Hydraulics
- Safety when using Pneumatics
- Converting common Pressure Units
- Gauge & Absolute Pressure
- Understanding ISO 1219-1, 1219-2
- Pneumatic Circuit Drawing
- 2/2, 3/2 & 5/2 DCV's
- Circuit Design & Build – 6 sessions
- Compressed Air Production
- Compressed Air Distribution
- The Importance of the Service Unit
- Service Unit Auxiliary Equipment
- Rebuild a Pneumatic Cylinder
- Actuator Types & Designs
  - > Linear
  - > Semi-Rotary
  - > Rotary
- Vacuum Generating Techniques
- Methods for Controlling:
  - > Speed
  - > Force
  - > Direction
- Dwell Control N/O & N/C
- Logic Principals & Logic Control
- Low-Level Pneumatics
- Hydro-Pneumatics
- Q&A Session

### This course is intended for:

- Maintenance Personnel
- Production/Engineering Supervisors
- Production/Process Personnel
- Technical Trainers
- Technical Sales Personnel

### Ralph Waldo Emerson once said:

*"As to methods there may be a million and then some, but principles are few... The man who understands principles can select his own methods, but the man who tries methods without understanding principles, is sure to struggle".*

### Included with your Course:

- 2 days of intensive expert tuition
- Use of all practical labs
- Detailed course work-book
- Valuable USB Resources
- Full Lunch and Refreshments

### Instructor Profile:

Declan McEvoy has been working with Industrial Pneumatic Systems in Ireland, and abroad, for over 35 years.

He has been an Instructor in various Engineering subjects for over 25 years.

Declan is a practical hands-on person, passionate about his subject and most articulate in its delivery.

He has a wealth of experience to share and is capable of bringing any training session to life.

### What others are saying:

"The course covered everything in Pneumatics and even touched into Hydraulics. It made me aware of the alternative sensors and valves etc. It is going to be a big advantage for fault finding and making improvements on our existing installations."

Michael Tuohy.  
([michaeltuohy@veolia.com](mailto:michaeltuohy@veolia.com))



Only €690

BOOK NOW

Okay... How do I sign up?  
Email: [michael@oni.ie](mailto:michael@oni.ie)

10th & 11th May 2017

Location : **Radisson Blu Hotel, Ennis Rd, Limerick.**

Start Time: **8:30am Each Day**



**Cork**  
021 4351137  
[sales@oni.ie](mailto:sales@oni.ie)  
**Limerick**  
061 313888  
[sales@oni.ie](mailto:sales@oni.ie)

**Dublin**  
016978095  
[sales@oni.ie](mailto:sales@oni.ie)  
**N.Ireland**  
00 44 7405 047973  
[sales@oni.ie](mailto:sales@oni.ie)