

## Foundation In Pneumatics

This Programme is designed as a general introduction to pneumatics and aims to familiarise delegates with the design, construction and operation of pneumatic components. This includes the interpretation of circuit drawings and symbols as well as the construction of control systems.

A complete overview is given, covering compressors, storage, dryers and distribution as well as the design, construction and operation of actuators, valves and airline equipment. The relevant ISO symbols are introduced and included in the circuit diagrams.

Practical sessions give delegates the opportunity to put theory into practice. Working from the drawings they have produced, delegates have to select the correct components from a range of equipment and build the circuits, making the necessary adjustments for pressure, flow and sequence.

A strong emphasis is placed on safety and "best practice".

*Target group* All personnel involved with the design, installation, maintenance, operation, servicing and buying of industrial pneumatic equipment and basic control systems

*Previous knowledge* General engineering background. Little or no experience in industrial pneumatics

*Syllabus*

- [The Air Supply](#) - Compressors, storage, ring mains, filters, regulators, lubricators
- [The design, operation and application of pneumatic actuators and valves](#) - All types of actuator including compact, ISO, VDMA and rodless, and cushioning options. All valve types including manual, mechanical, pilot and electrically operated
- [Circuit Symbols](#) - A description of symbols to BS2917 and ISO1219
- [Pneumatics Circuitry Theory](#) - Principles of circuit design and designing of basic circuits
- [General Servicing Procedure](#) - Correct procedures and testing
- [Fault Finding](#) - Including the diagnosis of failure patterns and the use of indicators
- [Practical Pneumatic Circuitry](#) - Construction of circuits and practical fault analysis

*Training outcomes*

- Recognise the construction and application of actuators, valves, filters, regulators, lubricators and associated pneumatic products
- Understand the units and measurement associated with compressed air systems
- Recognise pneumatic symbols drawn to the relevant standards (ISO 1219)
- Design and assemble simple applications
- Face faulty circuits with confidence

*Course duration* 2 days

*2015 Course dates*

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
14 & 15	4 & 5	4 & 5	1 & 2	6 & 7	3 & 4	15 & 16	5 & 6	2 & 3	7 & 8	4 & 5	2 & 3

*Price* £390(+VAT)





## Booking or Enquiry

**Company Name:**

**Company Address:**

**Your Name:**

**Position / Title:**

**Phone:**

**Mobile:**

**Email:**

I hereby agree to Thorite's Training Terms & Conditions of Sale.

Signature:

**Enquiry / Booking?:**

**Preferred Programme Date:**

**Preferred Payment Method:**

**O/No (Account Customers):**

Payment is due at the time of booking, except for those customers who have an authorised Thorite credit account, where payment will be due seven days from the date of invoice, or three days before commencement of the course, whichever is sooner.

Delegate Name	Position / Title	Email Address

### About Thorite

We have been specialising in pneumatics for over 60 years and are widely recognised as experts in design, specification and support. See [www.thorite.co.uk](http://www.thorite.co.uk). Thorite is proud to deliver "practical training for practical people". Our Trainer has over 30 years' experience and delegates rate him "excellent" in all disciplines.



## Thorite Training Academy

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