

PNEUMATIC TECHNOLOGY WORKSHOP

DAY 1

Module 1: Air production and air treatment

Module 2: Pneumatic valves and circuit schematics

DAY 2

Module 3: Pneumatic system sizing

Module 4: Pneumatic systems

Upon completion of this course participants will be able to:

- Recognise the standard symbols for pneumatic system components.
- Understand the function and maintenance needs of common pneumatic elements.
- Diagnose pneumatic circuit and component faults.
- Understand, design and build pneumatic logic circuits.

Certificates will be presented.

For a detailed description please contact SMC International Training

Telephone: 01 4039032, Fax: 01 4660236 alternatively, Email training@smcpneumatics.ie

PNEUALPHA 2 SEQUENCE CONTROLLER WORKSHOP

Module 1: Introduction to PneuAlpha2 Controller Hardware & Visual Logic Software Programming

Module 2: PneuAlpha2 Programming Functions & Fieldbus Capabilities

Upon course completion, participants will be able to:

- Understand PneuAlpha Hardware configuration & Software functions.
- Program PneuAlpha software.
- Understand AC/DC Wiring Connectivity.

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INDUSTRIAL PNEUMATIC SYSTEMS



Further Education and
Training Awards Council
Comhairle na nDámhachtainí
Breisoideachais agus Oiliúna

Module 1: Compressed Air.

Module 2: Pneumatic Components

Module 3: Pneumatic Circuits

Module 4: Health & Safety

Assessment

- The learner's understanding of the course content will be assessed through a number of assessment tasks. They will demonstrate their understanding by interpreting a number of pneumatic circuits, identifying a selection of components and by connecting a circuit using a circuit diagram.
- This is an intensive course which involves lectures, practicals and home study.
- Successful completion of this course will lead to a FETAC Level 6 Component Certificate.

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ELECTRO-PNEUMATIC TECHNOLOGY WORKSHOP

DAY 1

Module 1: Electrical Theory

Module 2: Electro-pneumatic component function and operation.

DAY 2

Module 3: Electro-pneumatic circuit design techniques.

Module 4: Electro-pneumatic systems

Upon completion of this course participants will be able to:

- Recognise the standard IEC symbols of the electrical wiring schematics.
- Understand operation of auto-switches, solenoid valves, relays, pressure switches and E/P converters.
- Wire auto-switches, solenoid valves and relays.
- Trace faults in electro-pneumatic control systems.

Certificates will be presented

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ELECTRICAL SAFETY & PRINCIPLES WORKSHOP

Electrical Safety & Principles 2-day Workshop

Requirements: Participants should have a basic Technical Knowledge.

Duration: Two Days
9am – 5pm each day.

Objectives: Upon Course completion, Participants will be able to:

- Understand the Safety & Basics of Electricity.
- Fault Find Electrical Circuits & Component Faults.
- Understand the Effects of Electricity on the Body.
- Understand Electrical Safety Procedures & PPE.
- Wire & Test Basic Electrical Circuits.
- Read & Fault Find Electrical Schematics.

Syllabus: **Module 1: Basics of Electricity**

Module 2: Electricity & The Law, Electrical Fault Type

Module 3: Electrical Hazards & Personal Protection

Module 4: Electrical Circuits & Component Protection

Documentation: Course Handbook and Certificate on completion.

Equipment: Electrical Safety Videos, Electrical Component Samples, Multimeters, Electrical PPE Samples, The SMC AC/DC Electrical Panels, & The SMC Electrical Safety Panel Board.