

INDUSTRIAL PNEUMATIC SYSTEMS



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

Module 1: Compressed Air.

identify the main components in an industrial air compressor installation, i.e. compressor, coolers and air dryer.

list the main factors influencing compressor power consumption and running costs

list the factors affecting air quality

interpret the gauge readings on compressor installations

perform the maintenance tasks necessary to achieve the required air quality, i.e. change filters, check dryers, drain reservoirs.

perform a leakage test on an installation and evaluate the results.

Module 2: Pneumatic Components

Identify a range of standard pneumatic components including valves, valve actuators, push buttons, springs, signals, levers, trip rollers, solenoids, cylinders.

Explain the operation and applications of standard pneumatic components.

Replace components correctly.

Specify and perform the routine maintenance procedures necessary on Air Service Units for pneumatic components.

Adjust the cushioning on a pneumatic cylinder.

Module 3: Pneumatic Circuits

Recognise the symbols for standard pneumatic components.

Interpret the standard notation used on pneumatic circuit diagrams

Use a circuit diagram to predict the sequence of operation of a pneumatic circuit.

Sequential and cascade circuits.

Locate faults in pneumatic circuits using circuit diagrams.

Module 4: Health & Safety

List the main responsibilities the Health and Safety and Welfare at Work Act (1989) lays on employers and employees.

List potential hazards associated with using compressed air.

Outline how the risk of injury with these hazards can be minimised.

Specify the safeguards that should be installed on machines with exposed moving parts.

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.

BOOKING FORM

INDUSTRIAL PNEUMATIC SYSTEMS

Mon 6, Tues 7 & Wed 8 September, 2010.

**SMC International Training, 2002 Citywest Business Campus,
Naas Road, Saggart, Co. Dublin.**

€ 1,050 per person.

COMPANY:

ADDRESS:

PARTICIPANT NAME:

JOB TITLE:

PARTICIPANT EMAIL ADDRESS:

PARTICIPANT NAME:

JOB TITLE:

PARTICIPANT EMAIL ADDRESS:

PURCHASE ORDER NUMBER:

PAYMENT TO BE MADE BY:

(ON ACCOUNT, CREDIT CARD, CHEQUE)

BOOKING SUBMITTED BY:

JOB TITLE:

EMAIL ADDRESS:

Conditions:

- Places on this course will only be confirmed on receipt of an order number.
- Cancellation within 10 days of the course will result in 50% of the course fee being retained.
- On completion of the course, participants will receive a Certificate of Achievement.
- Lunch/refreshments will be provided.



If you wish to make a booking, please complete this form and
Fax to (01) 4660236 or email to training@smcpneumatics.ie

