CELTEC
Centre for Emerging Leading Edge Technology Empowering Change

Industrial Pneumatics Systems

This course equips the learner with the knowledge, skill and competence to plan and safely carry out the maintenance tasks necessary for the efficient running of industrial pneumatic systems whilst working independently or supervising others.

For more information and to apply, visit
www.celtec.ie/ips

Course Learnings

Pneumatic System Fundamentals
Identify the standard components, symbols, functions, and applications of industrial pneumatic systems, including valves, actuators, levers, trip rollers, and solenoids.

Safety and Regulatory Compliance
Understand the hazards associated with pneumatic systems and apply appropriate risk mitigation measures while interpreting key health and safety legislation and employer and employee responsibilities.

Pneumatic Circuit Design and Interpretation
Interpret pneumatic circuit diagrams to predict system operation and construct a range of industrial pneumatic circuits, including sequential, interlock, override, and cascade control circuits.

Maintenance and System Performance
Perform routine maintenance on compressors, air service units, filters, dryers, regulators, lubricators, and cylinders to ensure efficient system operation and required air quality.

Diagnostics and Fault Finding
Develop practical fault-finding skills by interpreting gauge readings, carrying out leakage tests, and locating faults in pneumatic systems using circuit diagrams and systematic troubleshooting techniques.

APPLY

1. 30 September 2026
2.

AT A GLANCE

DURATION
5 Non-Consecutive Classroom Days

LOCATION
CELTEC, Celbridge, Co. Kildare, W23 HCK2

DELIVERY
Classroom Based

SUITABILITY
Those in employment in the Kildare and Wicklow regions

COST
This course is partially funded under the Skills To Advance initiative for eligible applicants

COURSE REQUIREMENT
Applicants must have prior technical experience or knowledge and/or exposure to an industrial electrical environment

CERTIFICATION
QQI Level 6 Minor Award in Industrial Pneumatic Systems (6N5375)

Skills to Advance – boost skills - boost business
SOLAS learning works
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KILDARE AND WICKLOW EDUCATION AND TRAINING BOARD
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