# **Course Information**



# Polymer - Extrusion - Pipe and Profile Technology Part 3

Study Mode: Part Time

## Is this course right for me?

The aim of the course is to provide delegates with an in-depth knowledge of the extrusion process in order to competently and safely set up machines to achieve specified product quality levels and output rates.

#### **Delivery Information**

Option 1 - 2 days Theory PTIC + 2 days in company

**Option 2 -** Theory and Practical in company (4 days)

# **Entry Requirements**

Candidates must be able to demonstrate existing knowledge levels through either passing the EXT2 end of course assessment or having achieved an NVQ Level 2 or having completed our pre-course questionnaire and achieved a score of 70% or above.

Specifically designed to address the needs of people requiring high-level skills in configuring and optimising the extrusion manufacturing process. In particular: Setters, Process Engineers, Technicians and Multi-Skilled Engineers.

#### What will I learn?

On completion of the course, the delegates will be able to:

- Demonstrate an understanding of current safety legislation for the extrusion process and the use of safe working practices
- Describe the construction and operation on an extrusion machine, stating the function of component parts and process parameters
- Demonstrate an understanding of forming die, sizing tool and calibration equipment designs
- Describe the structure and properties of plastics materials and their interactions with the extruder
- Identify relevant control and quality monitoring equipment and describe its usage
- Set up and run an extrusion line from a zero base situation
- Undertake machine condition setting in a logical and systematic manner
- Recognise common product faults and introduce appropriate rectification adjustments
- Simulate a full product trial and maximise product quality and output rates
- Shut-down an extrusion line in a safe and efficient manner.

### What skills will I gain?

Polymer Processing Certificate Part 3 Material covered has been aligned to the content of an NVQ at Level 3 and can be used as underpinning knowledge towards achieving the award, if so desired.

#### How will I be assessed?

Individual candidate knowledge levels are assessed at the end of the training programme and a management report is provided to help identify further training requirements or career progression possibilities. This is a PTIC assessment of knowledge for the extrusion process but candidates can then progress towards achievement of their PTIC Approved Technicians Award by successfully completing a further practical assessment.

#### What can I do next?

# **Delivery**

**Location:** Telford Campus

**Start Date:** 

Day:

Time:

**Course Fee:** 

Course Code: POL7

Study Mode: Part Time

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