

Polymer - IM-Tooling Design and Procurement

Study Mode: Part Time

Is this course right for me?

This course is designed to give candidates a solid understanding of the key principles behind plastic moulding, product and tooling design, and the properties and performance of raw materials.

By the end of the course, you'll be able to confidently use industry terminology, select suitable materials and manufacturing processes, and make informed design decisions from concept through to production. You'll also develop the skills to identify and resolve design issues, optimise tooling and maintenance costs, and apply computer-based design tools to enhance future projects.

Delivery Information

This duration of this course is 2 days

This course will run from the following dates:

- 26 March 2026
- 9 July 2026
- 26 November 2026

Cost per person: £1,060

Entry Requirements

To gain the most from this course, attending candidates should have been involved with design and procurement projects associated with the injection moulding process for a period of no less than 3 months and have some knowledge of the process requirements. Examples include:

- Product and Tooling Design Engineers
- Project and Production Engineers
- Logistics and Procurement Staff
- Tooling and Production Managers

What will I learn?

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

- Communicate effectively using terminology relevant to the various design activities
- Effectively manage future projects through the design and procurement stages
- Stipulate the correct manufacturing process based on design and / or volume requirements
- Select appropriate polymeric materials and design according to their specific requirements
- Understand the fundamental principles associated with the injection moulding process
- Appreciate how raw material selection affects mould design requirements
- Identify and eradicate poor design aspects before tooling is commissioned
- Take appropriate action for any prototyping, pre-production and / or low volume requirements
- Select the most appropriate type of production tooling for any raw material and higher volumes
- Identify opportunities for improvements in existing designs and tooling capabilities
- Optimise future designs to minimise initial tooling and ongoing maintenance costs
- Identify external computer based packages that could be of benefit for ongoing design activities

What skills will I gain?

How will I be assessed?

Although no formal assessment is undertaken as part of this taught programme, attending candidates will be expected to complete a range of practical activities and 'hands-on' learning exercises to the satisfaction of the course tutor.

What can I do next?

Attending candidates will leave the course with a full understanding of the various inputs required for a successful design at all stages in order to take new products through to manufacture.

Delivery

Location: Telford Campus

Start Date:

Day:

Time:

Course Fee: 1060.00

Course Code: POL10

Study Mode: Part Time



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