

Injection Moulding and Tooling - A One Day Introductory Course - 23rd October 2014



This one day course, with access to fully working moulding machines, will provide delegates with a basic grounding in the processing of thermoplastics & elastomers by injection moulding methods including multi-shot moulding. In addition the course will look at the key components that make up the injection moulding tool, including various gate designs & hot runner configurations. Whether you know nothing, have a basic understanding or are familiar with this area, this course will provide you with useful knowledge and insights from leading tooling experts who have worked in the industry for over 40 years.

Who should attend

Packaging Technologists

Account Managers

Packaging and Product Designers

Project Managers

Purchasers & Buyers

Quality Assurance & Control Personnel

New Product Development Personnel

Course Content

The injection moulding machine -

- The injection unit
- The clamp unit
- Screws, barrels and nozzles

The injection moulding process -

- Material preparation
- Speed, Pressure, Temperature
- Shrinkage and cooling
- Thin wall moulding

Moulding faults -

- Burning
- Splay marks
- Flow/weld lines
- Moulded in stress

Multi-shot moulding -

- Moulding process
- Tooling configurations
- Advantages & Disadvantages

Elements of an injection moulding tool -

- Core and cavity
- Runner systems & gate designs
- Ejector system
- Speed base systems
- Steel vs Aluminium
- Texture & polishing

Specifying & buying mould tooling -

- The tooling specification

By the end of this interactive course you will be able to :

- Understand the key terms and phrases associated with injection moulding machines, the process and a basic multi-cavity hot-runner mould tool configuration.
- Have the knowledge and confidence to interact on an even level with suppliers when specifying, sourcing and managing a plastics moulding, tooling project through to final acceptance.
- Recognise common moulding faults and implement a course of remedial action quickly.
- Create bespoke mould tool specification documents for your own components - this will enable you to not only understand your current suppliers documentation, but also compare alternative suppliers on a like-for-like basis.

Standard booking price - £495 + VAT

Fee includes full set of course documentation as well as refreshments and lunch

Venue: Peterborough, UK. For further details or to register: Email: training@designcognition.com or

Telephone: +44 (0)115 846 1914 or Visit: www.designcognition.com/training

(NB places cannot be reserved without full payment)