



Welding of Moulded Plastic Components

The understanding of welding is essential for those involved in the material selection, design and fabrication of plastic moulded components.

Engineers working in high tech industries such as automotive, medical and domestic appliance, are required to design complex systems involving parts that may need to be welded or bonded.

The training available from TWI provides guidance and best practice on the welding of moulded plastic components. Each course can involve a mixture of classroom and practical sessions.

Objectives

- To equip attendees with the necessary welding knowledge for designing plastic moulded parts for complex, high integrity applications
- To provide the information required to optimise a welding process and trouble-shoot a production problem
- To explore the range of processes available for joining moulded parts

Course content (3 days)

- Advantages and limitations, materials, welding parameters, equipment, joint design and applications for the following welding processes; hot plate, spin, infrared, ultrasonic, vibration and laser
- Hot air and ultrasonic staking, an introduction to plastics, mechanical and non-destructive testing
- Practical demonstrations of ultrasonic, hot plate, vibration, laser welding and hot air staking
- Candidates will take a multiple-choice examination at the end of the course

Tailored courses

Courses can be delivered for an individual company that focuses on its particular products

Duration and price

Course length (typically 3 days) and the specific detail to be included in the training will be discussed prior to a price being provided

Venue

The course can be delivered at customers' premises in the UK and overseas. However, welding demonstrations will only be carried out if the course is delivered at the TWI headquarters in Cambridge, UK.

This training course has been recognised by The Welding Institute for CPD.

To discuss your requirements or to book a course, please contact:
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