



CastingsTechnologyInternational



Road-show Training Event

3rd October 2007 10.00am – 4.30pm

National Metal Forming Centre
47 Birmingham road, West Bromwich
West Midlands, B706PY

Casting Processes & Prototyping Techniques

This NEW and extended course delivers fundamental knowledge on the principles of casting and provides an overview of most casting processes available from basic sand casting, die casting to investment casting (including the 'Lost foam' and 'Replicast'® processes).

It also looks at the development of creating casting prototypes, not just using SLA techniques but also covers alternative ways such as "Patternless"® process and foam machining.

This course is designed to have a wide appeal, and caters for everyone wishing to understand casting processes and modern rapid prototyping methods and techniques.

Those attending may be shop floor, technical or non-technical, management personnel, sales, apprentices etc.

[No prior knowledge is required]

● **Session 1: Casting Processes**

Systematic review of sand casting processes. - Conventional Sand casting, Pattern production, Sand moulding, Green sand binders, Chemically Bonded sand binders, Resin Shell, advances in the Investment process, ceramic shell, lost wax process, Shaw process, plaster moulding, lost foam and 'Replicast'®. Also looks at the theory of die-casting and focuses on Gravity Die Casting, Low pressure and High Pressure Die Casting.

● **Lunch:** Refreshments provided and an opportunity for professional discussions and view exhibits from the Casting Skills Centre, Cti, and other trade & Industry organisations.

● **Session 2: Prototype Development**

Looks at alternative ways to use CNC techniques to manufacture prototype patterns – this includes foam, wax and sand machining

● **Session 3: Rapid Prototyping Techniques**

provides an overview of modern rapid prototyping methods and compares the usefulness each process for the creation of good castings – focuses on SLA and Sintered Print Techniques



For more details visit our website:
www.castingstechnology.com/roadshow.asp
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