

BOOKING & ENQUIRIES

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The Science & Technology Short Course Unit
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PROGRAMME & TECHNICAL ENQUIRIES

Contact the ACMC office:

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ON LINE INFORMATION

Final updates & registration forms can be found on the ACMC web site:

www.plymouth.ac.uk/acmc



Resin Infusion Short Course

13th & 14th June 2002

COURSE PROGRAMME

This course has been designed to give participants an appreciation of both the principles and practice of resin infusion. Hands-on laboratory sessions will include exercises in preparation, assembly and monitoring of the resin infusion process. By the end of the course, delegates with no previous experience should be sufficiently confident to implement the process in their workplace.

COURSE PROGRAMME

THURSDAY 13TH JUNE

- 0900 Registration
- 0930 Process overview; historical review; related & competing processes
- 1100 Break
- 1115 Practical 1 – Infusion demonstrations
- 1300 Lunch
- 1345 Practical 2 – Hands on, the basics
- 1500 Break
- 1515 Practical 3 – Infusion examples
- 1700 Close

FRIDAY 14TH JUNE

- 0900 Physical principles of resin infusion
- 1030 Break
- 1045 Practical 4 – Demoulding & process variables
- 1245 Lunch
- 1330 Practical 5 – Process variable experiments
- 1530 Break
- 1545 Collation & presentation of experimental results & conclusions

COURSE FEES

The course fee of £445 includes the Course Dinner, refreshments, lunches and Course Manual. Accommodation is not included in the fee, however the Short Course Unit can recommend good local hotels where a discount has been negotiated.

GRANT ASSISTANCE OF UP TO 50% MAY BE AVAILABLE FROM SOUTHWEST TRAINING AGENCIES - CONTACT ACMC FOR DETAILS

PRACTICAL WORK

This will include...

General process overview demonstration – observation of lay up and flow characteristics.

Planning and preparation for infusion – ancillary materials selection; positioning of inlet(s) and outlet(s); mould release and coating; sensors; vacuum connections.

Lay up and bagging – tape location; pleat formation and position; peel-ply and mesh size and location; inclusion of core; vacuum integrity.

Experimental infusions – effect of mesh type; gallery design; reinforcement pack; vacuum level; temperature; evaluation and measurement of laminate quality.

