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COMPOSITE TOOLING TRAINING

Using composite tools gives many advantages to the composite part manufacturer, including:
 - light weight tools are easier to work with
 - composite tools are cheaper than machined metallic tools
 - very low thermal coefficient of expansion
 - the surface can be improved or repaired at any time in case of scratch or porosity
 - long life cycle.

Composite Tooling is a course suitable for professionals wishing to gain a theoretical understanding and practical experience in making high quality composite moulds. This training session is intended for people who have some knowledge of the resin infusion and pre-preg moulding processes.

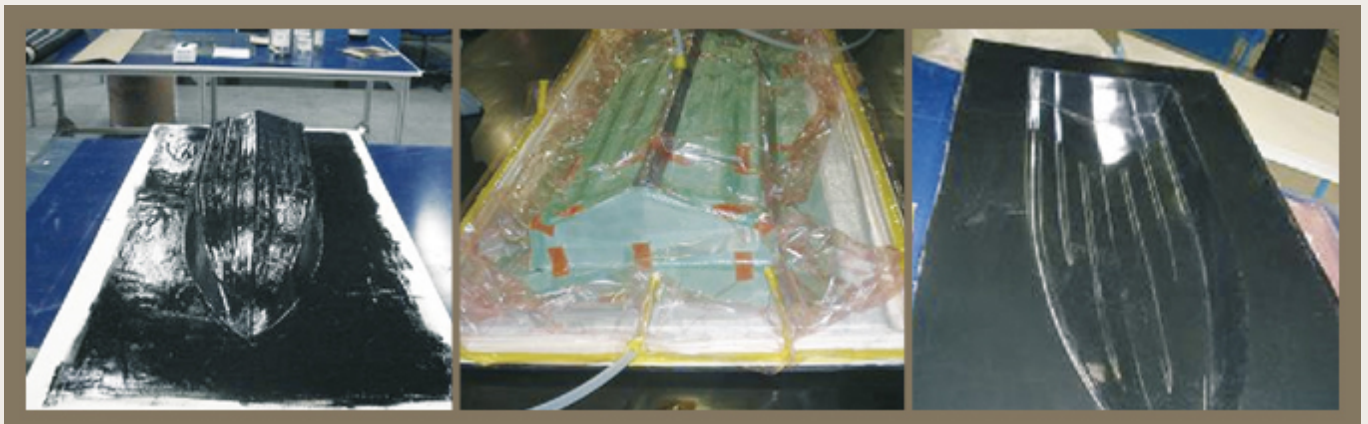Composite tools can be manufactured in three main ways:
- hand lay-up
- pre-preg / autoclave processing
- resin infusion processing

This training course will examine in detail these different processes. The hands-on exercises will be focused on one of these methods according to customer choice. Our training demonstrates how to effectively employ Airtech vacuum bagging materials in the composite tooling process.

The Airtech Europe training centre includes a conference room and a composite workshop equipped with a large range of materials and equipments, particularly an autoclave, that allows step by step guidance.

COURSE CONTENTS:

- **Classroom sessions covering:**
  o   Master model materials
  o   Hand lay-up tooling theory
  o   Pre-preg tooling theory
  o   Resin infusion tooling theory
  o   Support structure materials

- **Practical sessions covering:**
  o   Mould tooling exercise supervised by Airtech Europe trainer
  o   Practical composite tooling manufacture including:
      - Mould release
      - Surface resin application
      - Materials selection and placement
      - Vacuum Bagging
      - Vacuum checking and leak finding
      - Processing and curing
      - Part demoulding

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Catalogue position : Miscellaneous