

Mold Fabrication for Production and Repairs

5 DAY COURSE

COMPOSITES

Abaris Training Resources, in cooperation with FlightSafety International is pleased to offer a wide variety of Composite Training Options for today's Aircraft Maintenance Technicians. These programs include: Engineering / Design, Manufacturing, and Repair classes to meet your composites education requirements.

This course is designed to introduce student to the fundamentals of composite tool design and fabrication for use in either a manufacturing or repair environment, IAW standard industry practices.

The course contains a balance of theory and practical application, with much of the time spent in the lab performing actual composite tool fabrication.

Previous experience with composite materials, layup and processing is required. Upon completion of this course the client will have a better knowledge of composite tool design methods, as well as hands on experience with both wet layup and prepreg tooling systems.

THEORY COURSE MODULES

- Tool codes/designations
- Prototype vs. production tooling
- Indexing and part to tool coordination
- Part and tool design tolerances
- Thermal properties
- Integrated stiffening techniques
- Backup structure materials and design
- Damage prevention through design
- Vacuum and pressure integrity
- Lightweight tool design concepts
- Mold fabrication procedures
- Tool repair materials and procedures
- Permanent vacuum bags and semi-rigid caul tooling
- Overview of semi-permanent seal and release systems

PRACTICAL COURSE MODULES

- Preparation of a master-model, permanent pattern, or an existing part intended for tool-laminate fabrication
- Mock up fences and decks for molding flanges
- Add indexes and other pertinent design features
- Fabricating carbon fiber or fiberglass mold using low-temperature curing tooling systems
- Fabricating glass-epoxy fixture laminates using wet-layup materials
- Application of semi-permanent seal and release systems

Total Days 5.0

APPROVALS AND LIMITATIONS

FAA IA renewal Accepted

Accredited for IA refresher training under Title 14 CFR part 65, § 65.93(a)(4)

Transport Canada Approved

FOR MORE INFORMATION, CONTACT: +1 201.528.0170 or sales@flightsafety.com

Internal Use Only:
304244

TRAINING LOCATIONS

Wichita, Kansas