

Seminars For Engineers Presents in association with BTG Composites LLC:
Composite Materials Design, Testing & Fabrication
A Two Day Technical Seminar

SYLLABUS

Day One

- Advanced Composites vs. Fiber Reinforced Plastic (FRP) Composites
 - The Reinforcement Materials (e.g. The “String”)
 - The Resin Matrix Materials (e.g. The “Glue”)
 - Thermoset Resins
 - Thermoplastic Resins

----- Lunch -----

- Design and Analysis of Composites – An Overview
- Advanced Composite & FRP Manufacturing Methods (filament winding, fiber placement, hand layup, vacuum bagging, tape laying, pultrusion, resin infusion processes, SMC/BMC, tooling aspects, etc.)

Day Two

- Test Methods, Standards and Certification Requirements
 - Safety Factors and Design Approaches
 - NDI Techniques for Various Composites Applications
- Environmental Effects on Composite Materials & Structures

----- Lunch -----

- Sandwich and Core Structure Technology
- Specific Applications Examples (wind energy, oilfield, marine, transportation, corrosion, pressure vessels, aircraft, space technology, etc.)

Note: Course outline subject to adjustment.

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