

# Mechanical Testing Techniques Training Course - Composites



ZwickRoell in association with R-TECH Materials Ltd

**Wednesday, 4<sup>th</sup> September 2019**

ZwickRoell and composite testing specialists R-TECH Materials have teamed up to provide a cost effective introductory course on the testing of composite materials. Suitable for engineers & technicians who may have limited experience in the methods employed for testing composites, this one day training course will provide a foundation of knowledge for participants whose job roles require an understanding of the principles and practices involved in testing these increasingly popular materials.

The course will be held at R-TECH's laboratories in south Wales, which will comprise a blend of teaching and presentations as well as live laboratory demonstrations.

**Course venue:** Testing House, Kenfig Industrial Estate, Margam, Port Talbot. SA13 2PE

**Course presenter:** Dr Geraint Havard – Composites Manager at R-TECH Materials Ltd

**Course fee:** £250 + VAT per delegate (This includes a full day's tutoring, with practical demonstrations featuring test specimen preparation & mechanical testing, course notes, certificate of attendance, lunch and refreshments)

**The course content will include:**

- Why we carry out mechanical testing
- Definitions of common testing terms
- Explanation of a composite material
- Benefits of composite materials
- Common types of test
- Tensile testing and sample preparation
- Strain measurement
- Compression testing and sample preparation
- Compression fixtures
- Shear and flexural testing
- Impact testing and fracture toughness
- Hardness testing
- Sandwich panel test methods
- The application of universal testing machines

To reserve your place, please contact: [Alan.Thomas@zwickroell.com](mailto:Alan.Thomas@zwickroell.com)