York EMC Services

Understanding Reverberation Chambers

2 Day Course

Why attend?

The frequency of operation of electronic devices and wireless communications is steadily increasing into the GHz range. Whilst a range of EMC measurement techniques exist for use in the frequency range up to 6 GHz, new measurement techniques are required for higher frequencies.

The reverberation chamber is one such technique. It offers the capability to perform emissions and immunity measurements from a few hundred MHz upwards with a larger working volume than possible in conventional anechoic chambers. Absorber lining is not required.

High field strengths are achievable with lower power requirements than conventional anechoic chambers. The reverberation chamber illuminates a test object with equal energy from all directions and with all polarisations, ensuring that a thorough immunity test is performed.

For emissions measurements the reverberation chamber measures total radiated power. This avoids the need to determine the direction of maximum emissions which becomes increasingly difficult at frequencies above 1 GHz due to the possible high directivity of test objects.

Who should attend?

- EMC test engineers and managers
- Researchers performing EMC measurements
- Engineers thinking of installing reverberation chambers as part of a testing suite
- Existing users of reverberation chambers

Your programme includes:

- Why use a reverberation chamber
- Principles of reverberation chambers
- Measurement of shielding of enclosures and cables in a reverberation chamber
- Practical usage of reverberation chambers
- Introduction of measurements

Available: On Request

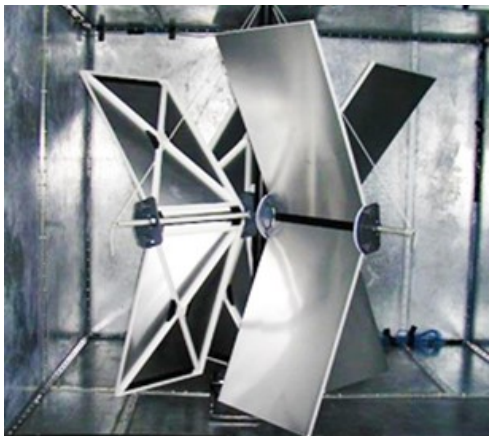
Would you prefer an in-house or bespoke course?

Here at Eurofins York we can deliver most of our courses on-site and even tailor courses to your own personal requirements.

Key Benefits

6 CPD HOURS

- An understanding of reverberation chamber operation
- Introduction of the use of reverberation chamber in a practical environment
- Discussion on shielding of enclosures and cables



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