York EMC Services

Automotive EMC Regulations Explained

1 Day Course

Why attend?

Almost all electrical and electronic devices fitted to most road-going vehicles, including after-market equipment, have to comply with UNECE Regulation 10.04 on Electromagnetic Compatibility. Regulation 10.04 replaced the Automotive EMC Directive 2004/104/EC in the EU in November 2014; its predecessor (Reg 10.03) could be used in place of 2004/104/EC since 2008.

Some components e.g. aftermarket components with no immunity related functions for vehicles can be 'CE' marked to the general EMC Directive, but must still meet the technical requirements specified in 2004/104/EC. A harmonised standard (EN 50498) has been produced to encapsulate these requirements.

Other components must be 'E' marked to the UNECE requirements, needing third-party testing and approval granted by the Department of Transport of a Member State. Self-certification is not an option.

Who should attend?

- EMC test and design engineers
- Engineers working for automotive vehicle and component manufacturers
- Engineers and sales/marketing directors working for aftermarket manufacturers
- Engineers involved in legislation and type approval

Your programme includes:

- Automotive EMC phenomena and typical voltage/field strength values
- Test standards for the radio frequency phenomena
- History behind the previous European legislation
- Type approval and marking requirements for UNECE Reg 10.04

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

- Explains the Automotive EMC environment and how it differs from the commercial/ industrial EMC environments
- The type approval and marking requirements of the Regulation are discussed in detail, in particular the mechanism of obtaining an 'E' mark approval
- Explains the technical requirements for radiated emissions, radiated immunity and transient emissions/ immunity for the Regulations

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