

Fundamentals of EMC for Products

Learn & Discover

5

DAYS

34

CPD HOURS

£1995

+ VAT

Understand the fundamentals and essentials of EMC and its importance in product design, from underlying theory, standards and testing through to design requirements and how to achieve EMC assurance.

Overview of the course

An understanding of EMC is essential for the reliable operation of electrical/electronics equipment and systems for the commercial, automotive and aerospace markets.

It is also essential to understand what exactly is happening during product acceptance and the route to compliance.

Fundamentals of EMC for Products is a unique five-day course that will provide you with the essential knowledge required to help manage EMC and achieve EMC compliance throughout your product design cycle.

Key benefits of the workshop

- Gain an overall understanding of both the theoretical and practical aspects of EMC and how it related to product design
- Understand the key management techniques to manage EMC effectively and achieve EMC compliance
- Understand EMC mitigation design techniques

Who should attend?

- Anyone who is concerned with the design, manufacture and testing of electrical/electronic products
- Compliance engineers or those involved in the setting of EMC requirements
- Test, compliance and product certification engineers
- Designers and operators of EMC test facilities

The course structure

- Four days with a mixture of lectures, presentations, interactive workshops and demonstrations
- One day of practical demonstrations at our UKAS accredited Test Laboratory to illustrate the commonly required EMC tests described in the EN multi-disciplinary 61000-4-x series of standards such as; conducted emissions, radiated emissions, conducted immunity and radiated immunity

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The course content

This course covers the basics of EMC from its underlying theory through to the standards and regulatory environment of testing, including design requirements and how to achieve EMC assurance or EMC product compliance.

- Fundamentals of EM Waves and radiation mechanisms
- Decibels and the units of 'EMC'
- The EMC Directive 2014/30/EU, it's history, updates and implementing regulations
- Commercial EMC standards
- EMC measurement and testing
- Overview of EMC design principles
- Conducted interference (passive devices, filters, etc)
- EMC on a PCB (PCB layout, decoupling, 'chip' characteristics, etc)
- Screening and enclosures
- Shielding modelling case studies (illustrating shielding examples using computational software)
- Conformance workshop – case studies
- Technical documentation
- EMC management strategies

This course includes one day of demonstrations held at one of our UKAS accredited test Laboratories.

During this time, our experienced Test Engineers are available to answer specific testing questions you may have.

The practical demonstrations illustrate the commonly required EMC tests including:

- Conducted emissions
- Radiated emissions
- Conducted immunity (RF, EFTB, etc)
- Radiated immunity

Book your place now to expand your knowledge

The current dates for Fundamentals of EMC for Products are available from our website or by calling our training team on **0330 430 3456**

You can also email our training team on **trainingyork@eurofins.com** and they will be pleased to help.

To book your place

- Call our training team on **0330 430 3456**
- Email **trainingyork@eurofins.com**
- Download the booking form online at **bit.ly/FUNDPROD19**
- Book & pay online at **bit.ly/FUNDPROD19**



visit: eurofins.co.uk/york

email: enquiryyork@eurofins.com

call: 0330 430 3456