Fundamentals of EMC in Railways
5 Day Course

Why attend?
This 5 day course delivers an in-depth study of EMC in the complex railway environment. It provides an understanding of its importance and the need to manage EMC from project concept to completion. The legal EMC requirements will be explained and how these are satisfied by use of standards and Technical Documentation; these requirements are related to safety and safety case requirements.

In order to understand the railway electromagnetic environment itself it is necessary to appreciate: the power feeding arrangements in AC and DC railways, EMI threats posed by traction drives, how unwanted signals couple into lineside SetT cables, how to shield/screen equipment and how to measure and reduce touch potentials, all of which are covered in this course.

Other important aspects of railway EMC which included in the course are: EMC Management, practical immunisation case studies and railway EMC measurements both at the trackside and within the laboratory.

Who should attend?
The course will be of interest to professional engineers concerned with: approvals and assurance, project management, system integration and equipment design from all areas of the railway industry. This includes network operators, TOCs, ROSCOs, consultants, Rolling Stock manufacturers, signalling and infrastructure equipment designers and manufacturers and prime contractors.

Your programme includes:
- Introduction to EMC, EM waves and radiation mechanisms
- Railway and Commercial EMC Standards, (plus technical documentation)
- Railway specific EMC Considerations (including on-site testing, signalling systems, AC and DC traction systems and fixed installation requirements
- Interoperability, management and regulatory considerations
- Covers Railway EMC standards including: updates to 50121 Network Rail and LU specific EMC standards
- Fundamental EMC knowledge of antennas, testing, standards and interference effects

Key Benefits
- An overall understanding of both the theoretical & practical aspects of EMC in the railway environment
- Introduces the key management techniques to achieve EMC
- Provides an understanding of EMC mitigation design techniques

Price: £1995 + VAT

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.

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