

ERTMS UK APPLICATION & DESIGN

Background

The Thameslink and Cambrian projects have successfully demonstrated the application of ERTMS Level 2 in the UK. Imminent major renewals of signalling infrastructure on key routes will see this technology rapidly rolled-out, to be transformed from the rare to the mundane.

Aim

This course will prepare a forward-thinking signal engineer for the Digital Railway: how it will look and be designed.

Key Features

- ERTMS system overview
- ERTMS trackside Levels
- ETCS trainborne Modes and Mode Profiles
- ERTMS jargon is explained in clear English terms
- The trainborne Driver-Machine interface
- “Before and after” signalling plan and performance comparisons for ERTMS Levels 1, 2 and 3
- Typical configurations of trackside, interlocking and RBC equipment
- ERTMS information and calculations
- Release Speeds and Overlaps
- Placing ETCS Block Markers, Ends of Authority, Supervised Locations and Balise Groups
- Headway calculations for ERTMS
- Signalling a Layout for ERTMS Level 2
- UK interpretation for ERTMS Level 2
- Making provision for unfitted and fallback operation
- Interlocking and RBC control tables

Course Outcomes

On successful completion of this course, the delegate will be able to describe how the future application of ERTMS will affect the current technical and operational practices.

Certification

On successful completion of this course, the delegate will be able to describe how the future application of ERTMS will affect the current technical and operational practices.

Pre-Requisites

A well-prepared delegate is expected to be familiar with signalling principles, layout plans and wiring diagrams for UK main line signalling installations.

Practical Information

Duration: 5 days

Maximum Delegates

10

Location

At our Derby training centre, or on your premises. We can deliver this course on a private basis, in which case the specific content can be tailored to the detailed needs of the client’s employee group.

This course is produced and run by Signet Solutions.

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