



Signalling the Layout for ERTMS Level 2

Aim

This course will enable a signalling designer to create a signalling plan for the UK application of ERTMS Level 2.

Key Features

This course addresses the future method of signalling for the UK.

- The course concentrates on understanding of underlying rules for ERTMS level 2 equipment specification.
- Euro technical jargon is explained in clear English terms
- Extensive practical exercise covering a wide variety of lifelike situations
- Underpinning Knowledge matched to IRSE Licence requirements
- Also provides preparation for module 2 of the IRSE examination

Course Outcomes

On successful completion of this course, the delegate will be able to:

- Explain ERTMS Level 2 operations and system components
- Determine end of authority to supervised location distances and release speeds
- Perform headway calculations to determine layout parameters
- Position nodes, marker boards and supervised locations
- Specify node and marker identities
- Specify euroballise group positions
- Specify route characteristics
- Specify any additional trap points required
- Specify normal lie and identity of points
- Specify train detection areas and identities

Assessment and Certification

Achievement of the Course Outcomes will be assessed by a theory assessment of signalling layout principles for ERTMS level 2.

The delegate's achievement of the Course Outcomes will be confirmed by a certificate which will be forwarded to the nominated client contact following the course.

Pre-Requisites

A well prepared delegate is expected to be able to describe the basic functionality of conventional UK lineside signalling.

Practical Information

Duration: 5 days

Location: At our Derby training centre, or on your premises.

Maximum number of delegates: 10

This course is produced and run by Signet Solutions.

For further information contact us:

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Course Progressions

We offer many signalling technical courses, and it can be difficult to work out what's best for your needs. The following table will assist you.

*Development Courses in green text

These courses typically form the backbone of a career development path, and are usually taken in the order shown. *Available on an "open" basis, in which you can take individual places from our regular timetable.*

*Supplementary Courses in blue text

These courses provide supplementary knowledge about a specific technology or process. They can generally be taken on an "as needed" basis, without any particular order.

Available on a "private" basis, in which you sponsor the delivery of a full course. This works better for four or more delegates.

This is just a quick guide – please consult our individual course specifications for more detailed information. Please ask us if you have any queries.

Signal Maintenance & Signal Installation	Signal Design	Signal Works Testing
Introduction to Signalling/ Basic Signalling 1 & 2	Basic Signalling Technology Intermediate Signalling Technology Layouts Intermediate Signalling Technology Control Tables Advanced Signaling Technology	Introduction to Signalling/ Basic 1 & 2 Mod 5 - Test Assistant Mod 3c - Verification Tester Mod 3BL - Functional Tester Mod 4 - Functional Tester Mod 2 - Principles Tester Mod 1 - Tester in Charge
SMTH - Signalling Maintenance Testing Handbook Route Relay Interlocking - Maintenance + Faulting Clamp Lock Installation Clamp Lock Maintenance Cable Jointing Supplementary Back Drives + Stretcher Bars EISS Electrical Installation Skills Electrical Principles Style 63 Points Installation Style 63 Points Maintenance Westpac MK111A Maintenance + Faulting HW100 Points Maintenance EBI Track 200/T121 Track Circuits Fault Finding Techniques Mechanical Signalling	Route Relay Interlocking Appreciation Route Relay Interlocking Design Western Region E10k Circuitry Correlation Westpac MK11A - Design Location Design Project Level Crossing Design SSI Appreciation SSI Control Tables SSI Data Appreciation SSI Data Preparation Route Relay Interlocking - Mod 3BI Westpac MK11A - Testing	