



E10K Western Region Relay Interlocking Design Course

Aim

This course will enable a signal principles designer to progress to the design of E10K Western Region style interlockings. These interlockings were developed by the Western Region of British Railways from the 1950s onwards.

Key Features

- Underpinning knowledge matched to IRSE Licence requirements
- Closely links the standard circuits to signalling principles and control tables
- Relay Functions explained in plain English terminology
- History of BR (WR) Signalling Centres
- Signalling Principles
- Control Tables
- Basic Signal and Points Circuits
- Approach Locking Circuits
- Sectional Route Locking Circuits
- Relay and Circuit Design Exercises

Course Outcomes

On successful completion of this course, the delegate will be able to modify the standard E10K circuits to create site specific designs.

Assessment and Certification

Achievement of the Course Outcomes will be assessed by a theory assessment to demonstrate the underpinning knowledge gained.

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 should be familiar with:

- Signalling Plans
- General signalling principles
- Signalling circuit diagrams
- Standard location circuits
- Standard BRS-SW67 interlocking circuits

The client is advised to group together delegates of similar levels to attend the course together.

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:

enquiries@signet-solutions.com

www.signet-solutions.com

telephone: +44(0)1332 343585

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 Appreciation Route Relay Interlocking - Maintenance + Faulting Route Relay Interlocking Design Clamp Lock Installation Western Region E10k Circuitry Clamp Lock Maintenance Correlation Cable Jointing Westpac MK11A - Design Supplementary Back Drives + Stretcher Bars Location Design Project EISS Electrical Installation Skills Level Crossing Design Electrical Principles SSI Appreciation Style 63 Points Installation SSI Control Tables Style 63 Points Maintenance SSI Data Appreciation Westpac MK111A Maintenance + Faulting SSI Data Preparation HW100 Points Maintenance Route Relay Interlocking - Mod 3BI EBI Track 200/T121 Track Circuits Westpac MK11A - Testing Fault Finding Techniques Mechanical Signalling		