



Scheme Design for SSI & CBI Interlockings Course

Aim

The course will enable a schemes designer to specify signalling/ location area plan arrangements which are optimised for the application of SSI or CBI technology.

Key Features

- Overview of SSI system architecture
- Appreciation of SSI interlocking/ data functions
- SSI signal and points module functionality
- Allocating SSI TFMs to achieve required I/O needs of the system
- How SSI interfaces with axle counters, and the associated data complexity
- How SSI handles boundaries and fringes using Internal data link and TFM/ Relay interfaces, and associated data complexity
- SSI theoretical and practical capacity limitations
- Overview of equipment housings, power supplies and data link requirements
- Next generation CBI interlockings, comms networks and I/O devices - Compare and Contrast with SSI

Course Outcomes

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

- Allocate Trackside Functional Module inputs and outputs as required by a scheme
- Assess the likely case count/ REB rack requirement
- Choose SSI interlocking boundaries to minimise complexity
- Choose SSI to RRI fringes to minimise complexity
- * Assess the usable residual “spare” capacity of an existing SSI system

Certification

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

The delegate should be an experienced schemes designer, also with a good knowledge of conventional relay control circuitry.

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

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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 Appreciation Route Relay Interlocking - Maintenance Interlocking Design 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 Route Relay Interlocking - Maintenance + Faulting 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	