



## Solid State Interlocking – Trackside Maintenance and Faulting

### Aim

This course is intended for staff who will be required to maintain and fault find the trackside data links and trackside modules of UK style Solid State Interlocking Systems (SSI), Westlock and Smartlock.

Note that this trackside course excludes maintenance of the interlocking.

### Key Features

- The course benefits from significant practical time on a working SSI interlocking at our training centre.
- The skills are equally relevant to the next-generation Westlock and Smartlock products.
- The course includes assessments to demonstrate underpinning knowledge and practical skills.

### Course Outcomes

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

- Describe the function and operation of SSI trackside components:
  - Trackside Data Links
  - Data Link Module (DLM)
  - Signal Module
  - Points Module
- Use the Data Link Interrogator to read telegrams
- Gather evidence upon reported faults from the technician's terminal and other sources
- Follow a logical process to diagnose faulty SSI trackside and connected equipment
- Replace faulty equipment and return to service
- Use the Module go/ no-go test set
- Identify equipment routine maintenance requirements
- Use the Production Telegram Error Rate Test Set (PTERTS)

### Assessment and Certification

Achievement of the Course Outcomes will be assessed by a practical and theory assessment.

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 have a good knowledge of typical lineside equipment and circuits, circuit diagram symbols and an appreciation of signalling interlocking principles.

### Practical Information

Duration: 5 Days

Location: This course can be run at our Derby training centre, or on your premises (subject to equipment availability)

Maximum number of delegates: 6

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 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 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	