



## Mod 4 – Functional Tester

### Aim

This course is intended for signal engineers, who are Works Location Verification and Functional testers, to become Trackside Equipment Verification and Functional testers.

### Key Features

- Underpinning knowledge matched to the IRSE Functional Tester Licence 1.3.170
- Reflects the requirements of functional testing techniques
- Intensive practical experience in application logic testing
- May be tailored to specific client or railway administration requirements
- The course includes activities on relay based and Solid State Interlocking (SSI) systems.

### Course Outcomes

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

- Prepare to perform tests on trackside equipment
- Perform Verification of trackside equipment installation
- Perform Functional testing of trackside equipment including
  - Track circuits
  - Points
  - Signals, AWS and TPWS
- Record and Document test activities
- Report errors identified during testing

### Assessment and Certification

Achievement of the Course Outcomes will be assessed by a practical 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 have

- EITHER a Module 3BL competence
- OR a Module 3c competence and a waiver from the Employer; and good knowledge of electrical
- Principles, sufficient Log Book evidence showing suitable work experience and be able to 'read' circuit diagrams.

### Practical Information

Duration: 4 Days + 1 Day one to one Assessment

Location: 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	