



Signal Maintenance Testing (SMTH) Course – 10 Days

Course Overview

This course is designed for individuals who are required to undertake Signal Maintenance Testing as part of their duties as a Signal Maintenance Tester on Network Rail (NWR) Infrastructure.

carry out Signal Maintenance Testing safely and competently. Training is delivered over 10 days through a blend of classroom instruction and hands-on practical activities within a safe, simulated environment.

Course Structure

The course consists of **five modules**:

- SMTH.a – Core Skills
- SMTH.b – Aspect Testing
- SMTH.c – Points Testing
- SMTH.d – Cable Function Testing
- SMTH.f – Diversion of a Circuit

Pre-Requisites

- SEM 1 / SEM 2 (NR course)
- BST Basic Signalling Technology
- BS1/BS2 (Introduction to Railway Signalling)
- Or equivalent (proof required and will be reviewed by a director)

Knowledge Test

All candidates must have passed the **Pre-SMTH Initial Training Knowledge Test** prior to attending. We can assist with this via our SYNAP software, details on request.

Delegate Eligibility

Delegates must:

- Be **18 years of age or over**
- Meet the medical requirements of:
 - **NR/L2/OHS/00124** – Competence Specific Fitness Medical Requirements (minimum Medical Level 2)
 - **NR/L2/OHS/0120** – Drugs & Alcohol Standard
- Have a sufficient command of the English language as defined in:
 - **NR/L2/CTM/021** – Competence & Training in Track Safety
- Inform the training provider in advance of any **additional learning needs** (e.g. dyslexia)

NWR-Specific Competence Requirements (SMTH.a)

NWR candidates must hold the following competencies (or equivalents):

- Sig 07
- Sig 13
- Sig 14
- Sig 24
- Sig 25
- Sig 26
- Sig 42
- Sig Maint Points 01

Identification Requirements

British Nationals (original hard copy only)

One of the following is required:

- Sentinel Card or other branded RMI identity token
- In-date full UK driving licence
- In-date UK provisional photo card driving licence
- In-date passport
- UK Biometric Residence Permit (BRP)
- Armed Forces Identity Card
- PASS-approved proof of age card (e.g. Citizen Card)
- Northern Ireland Electoral Identity Card
- Resident permit in line with Home Office guidance

Non-British Nationals (original hard copy only)

One of the following is required:

- In-date passport
- Identity card or driving licence from an EU or EEA country
- US Passport Card

Additional Information

- Delegates will be treated as **being at work** while attending the course.
- All relevant medical and safety policies must be complied with.
- Delegates must bring their **Sentinel Smartcard** (if applicable), which will be swiped at the start of the course.

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 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 + 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	