



Location Design Project

Aim

This course is intended for the signal engineer who needs to demonstrate their ability to create site specific location designs.

Key Features

- You will design a complete signalling location, in accordance with a project specification and current standards, under the guidance of our experienced mentor.
- A valuable resource which you can refer to will be the locations in our Derby training installation, which exemplify good and current location design and construction practice.
- This will demonstrate your ability to design interface circuitry for standard equipment types including signals, train protection, train detection and points.
- You can create a design either for a relay based or SSI type location, depending upon your needs and prior knowledge.
- The pencil and paper approach encourages you to think carefully about every detail of your design, instead of “copying and pasting” features which you may not understand.

Course Outcomes

On successful completion of the project you will have created a complete design for a location, which you can use as an item in your IRSE Licensing Portfolio of Evidence.

You will also create a personal report which describes how you created your design.

Assessment and Certification

Your project mentor will provide a witness testimony on your completion of the project.

Pre-Requisites

A well prepared delegate is expected to have a good prior knowledge of the standard interface arrangements for common types of equipment.

Practical Information

Duration: 10 Days

Location: at our Derby training centre, or on your premises (subject to equipment availability)

Maximum number of delegates: 10

The newly defined format for SSI control tables is specifically covered by our new SSI Control Tables course.

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 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	