

## Track Engineer – Renewals

### COURSE AIMS

This course is intended to provide a delegate with a comprehensive in-depth understanding required for the Management of the Permanent Way - Renewals and the role of the Track Engineer (Renewals).

### LEARNING OBJECTIVES

At the end of this course the delegates will: -

- Have a clear understanding of the role and responsibilities of the Track Engineer Renewals
- Be able to demonstrate in-depth knowledge of the technical requirements for accurate installation and effective management of the track, including:-
  - Formation and Drainage Problems and their Maintenance
  - Jointed Plain Line
  - Continuous Welded Rail
  - Switch and Crossing Work
  - Track Curvature and Super Elevation
  - Clearances
  - Off-Track Responsibilities
- Be able to complete a structured Inspection of both Plain Line and Switch and Crossings following track installation.
- Have an appreciation of the Operation of a Track Recording Coach and be able to interpret the records.
- Have a clear understanding of the Track Conditions that give rise to the Risk of Derailment and the requirement for Site Investigations
- Be aware of the Principal Requirements for effective prioritising, planning and managing Resources
- Be fully conversant with all relevant Railway Standards and Company Standards relating to Track Renewal
- Have a clear understanding of Technical Audit Requirements
- Be aware of the relevant On-Track Plant and their capabilities
- Have a basic understanding of the requirements for effective Management of Finances, Information and Personnel
- Have a clear understanding of the Infrastructure Signalling System and Circuitry and its interface with the Renewal of the Permanent Way

### MODULE DURATION

Ten days consisting of two five day modules, Monday to Friday.

### PRE-REQUISITES

There are no particular educational or competence pre-requisites for the course. However, the following factors will be of significant benefit to the delegate:-

- Prior experience in working as a Supervisory Manager, Track Charge Man or in a Technical Support position.
- In-depth knowledge of the Permanent Way and its components.