



## Surveying by the Hallade Method

### COURSE AIMS

This course is intended to provide a delegate with an in depth understanding of the setting-out of Track Alignment Schemes employing the Hallade Method.

### LEARNING OBJECTIVES

At the end of this course the delegates will: -

- Be able to demonstrate an understanding of the Basic Principles of the Hallade Method
- Have a clear understanding in the Principles of Surveying by the Hallade Method
- Have an understanding of the Quarter Chording Transitions
- Be able to demonstrate a clear understanding of the need to make site adjustments
- Understand the procedures for setting out Alignment Schemes and the adjustments required.

### COURSE DURATION

Five days.

### PRE-REQUISITES

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

- Prior experience in working within the Permanent Way environment
- Prior knowledge of Permanent Way Track and its components

### PERSONAL PROTECTIVE EQUIPMENT

This course requires the delegate to be on or near the running line, therefore, he/she must be in possession of: -

- Valid Track Safety Competence
- Protective High Visibility Clothing
- Safety Footwear

The protective equipment must comply with current safety standards.

### CERTIFICATION

A Certificate of Competence will be awarded to the delegate on successful completion of both an underpinning knowledge and practical on-site assessment.