

## Critical Rail Temperature (CRT)

### Course Aims

The course is intended to provide the delegate with a clear understanding of the management of sites that have a risk of track buckles i.e. CWR sites with a low or unknown Stress Free Temperature (SFT). Suitable for CRT Co-ordinators, Senior Technicians as well as Supervisors, Maintenance Managers, Renewals Engineers, Project Managers and Site Supervisors.

### Learning Objectives

At the end of the course the delegates will:

- Have an appreciation of temperature induced forces in the rail in CWR.

- Have a clear understanding of the importance of knowing the Stress Free Temperature (SFT)

- Be aware of the Network Rail standards and requirements to manage high risk sites

- Be able to set up procedures to record SFT by mileage, line and rail and thus identify risk sites

- Be able to set up a geographical rail temperature monitoring procedure with reporting to identify when criticality has been reached

- Be able to calculate the three CRT values that will provide “action triggers” for an “at risk” site

- Know when to deploy resources to monitor individual sites

- Be aware of the need to reduce speed or block the line and have the necessary equipment available

- Be able to plan the necessary stressing of the at risk sites in the given priority

### Course Duration

2 days, including stressing of CWR appreciation

## Instructions

There are no particular educational or competence pre-requisites for the course.

Must Bring Photo ID - For British Nationals, one of the following (**original hard copy - not electronically**): a current and valid branded form of identity token, used for accessing the RMI (Railway Maintained Infrastructure) such as a Sentinel Card; in-date and valid full driving licence; in-date and valid UK Provisional Photo Card Driving Licence; in-date and valid passport, a UK biometric ID Card/Residence Permit (BRP), an Armed Forces Identity Card, a proof of age card recognised under PASS with a unique reference number (this includes the Citizen ID Card), N.I. Electoral Identity Card or a resident permit as per Home Office guidance.

For Non-British Nationals - an in-date and valid passport, Identity Card or Driving Licence from an EU or European Economic Area (EEA) country or a US Passport Card is required (**original hard copy - not electronically**).

Address

Intertrain (UK) Ltd  
Balby Court Business Campus  
Balby Carr Bank  
Doncaster  
South Yorkshire  
DN4 8DE

Contact

Tel: 01302 815 530  
Fax: 01302 815 531  
Email: [sales@intertrain.biz](mailto:sales@intertrain.biz)