

# Infrastructure & Engineering

**Course Name**

Electrification Engineering Principles

**Course Description**

The 2 day Electrification Engineering Principles course will cover the following topics:- The history and development of electrified railways from inception to the current day. The functionality of the electrification systems. The principles of electrical supply feeding. Isolation and bonding. Principle electrical and mechanical components and equipment types. Required design documentation. Design and construction processes for overhead and third rail. Interfaces with other rail related infrastructure and outside parties. A case study exercise to enable visualisation and application of the course learning to site scenarios. The course includes an assessment Day 1 - Class Room based tutorials Day 2 - Class Room based tutorials, Case Study & Assessment Examination Attendance of the 'Basic Principals of Railway Infrastructure' course would be beneficial

**Audience**

Anyone new to a management or supervisory role in a rail company who will be involved with electrification engineering aspects or the broader infrastructure. Managers and staff from contracting organisations who are new to working on electrification related infrastructure. General management, operations and support staff who need a basic understanding of railway electrification engineering.

**Duration:** 2 Days Day(s) **Class Size:** 12

**Competence Name Awarded****Competence Awarded****Course Code****Prerequisite Name****Prerequisite Short Code****Skills Assessment Scheme Regime****Course Type**

Face to Face

**Download Date: 23/11/2024**