

# Signals and Telecoms

**Course Name**

TCP/IP Networking

**Course Description**

This course gives an in depth introduction to the theory and application of TCP and IP technologies used on Network Rail's telecommunications network covering the principles of the OSI 7 layer stack, general IP networking principles including encapsulation, decapsulation and relevant PDU's for each layer. Theory is then applied by building and testing a test network in the practical lab.

**Audience**

For Telecoms Technicians / Engineers required to Fault find and maintain Cisco switches and routers used on the network. It is also suitable for NMC Analyst's, Telecoms Technicians / Engineers line managers and Project Managers/Engineers who require this level of knowledge.

**Duration:** 3 Day(s) **Class Size:** 6

**Competence Name Awarded**

Undertake corrective and preventative maintenance of transmission systems;  
Routers 1st line activity eg Cisco ME3400/2520 and ASR903;

**Competence Awarded**

Tel 08; Tel 08.71

**Course Code**

Tel 08; Tel 08.71

**Prerequisite Name**

N/A

**Prerequisite Short Code**

N/A

**Skills Assessment Scheme Regime**

4

**Course Type**

Face to Face

**Download Date: 19/5/2024**