

## **Technical & Vocational Courses**

# **Telecoms Engineering**

#### Course Name

Copper Telecoms Cable Testing

#### Course Description

Introduction

Features of telephone and other copper comms cabling and networks, network topologies Basic Electrical Theory Voltage, current and resistance, SI units Signalling on Copper Comms Cables Analogue and digital, frequency and bit rate, electrical characteristics of data cables, DC loop. Testing Scenarios & Configurations Commission testing, maintenance & fault finding Using a Multimeter Principles of tests, power, battery, earth, short circuit, contact and disconnections tests, multimeter setup, testing sequence Using a Tone Amplifier & Generator Principles of tests, setup of equipment, locating cables • Using a Ohmmeter (Bridge Megger) Principles of tests, insulation resistance, loop resistance, test leads, instrument settings Using a Certification Tester Principles of tests, setup of equipment, performance standards TDR Testing Principles of TDR testing, analysis of TDR traces Analysis of Test Results Ascertain line conditions and faults from multimeter, Ohmmeter & other test results Course Review Assessments Practical assessment & short written tes

#### Audience

est engineers responsible for commissioning & acceptance testing of new installations • Maintenance staff (faultsmen) responsible for locating faults • Managers and engineers who are required to accept, interpret or understand test results N.B. A basic understanding of copper cable jointing is required for this advanced course

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

#### Competence Name Awarded

Competence Awarded

**Course Code** 

**Prerequisite Name** 

### **Prerequisite Short Code**

**Skills Assessment Scheme Regime** 

Course Type



Face to Face

Download Date: 28/4/2024