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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: 15/5/2024