

City & Guilds 3668

Unit 2 Fibre Cabling

Course Programme

Introduction

- Features of fibre, telecommunications & basic system components

Optical Fibre Basics

- Structure, materials, light propagation, MM & SM specifications

Fibre Safety

- Fibre sharps, chemicals, optical & environmental hazards

Cables

- Internal & external cables, types & features

Joining Fibres

- Problems, methods & typical specifications

Fibre Connectors

- Principles & connector types

Cable Preparation

- Tools & techniques

Fibre Splicing

- Principles, fusion technology, fibre preparation, mechanical splices

Termination

- Fitting connectors, techniques, inspection & acceptance criteria

Cable Joint Enclosures

- Requirements, types & ODFs

Installation Methods

- Pulling, laying & blowing

Optical Components

- Transmitters & Receivers, amplifiers, couplers/splitters, WDMs

Fibre Testing

- Continuity, VFL, ILM, OTDR basics & fault locating

OTDR Set-Up & Use

- Wavelengths, range, pulse width, group index

Testing Configurations

- Cable drum acceptance tests & installed system tests

Measurement Problems

- Launch problems, ghosts, "gainers", saturation & linearity problems

Course Review

Assessment

- Assessment of practical skills for each of the two qualifications, plus on-line, multiple choice tests for each unit

Basic Course Details

Reference: CG-2FC

Duration: 5 Days

Hours: 9:00 - 17:30 app.

Location: Waterside House,
Edgar Mobbs Way,
Northampton NN5 5JE

Delegates: max. 10

Who should attend?

- Installation technicians and supervisors who will be installing either telecoms or datacoms fibre optic systems
- Managers and engineers who require an introduction to theoretical and practical aspects of fibre optics
- Test engineers who will be required to perform fibre optics system characterisation or acceptance testing
- Maintenance staff who will be required to perform routine maintenance or emergency fault finding and repair

How do I book?

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