

City & Guilds 3667-02 Unit 2 Fibre Optic Cabling in an Internal Environment

Description	This unit is concerned with the installation, splicing, connectorisation, termination and testing of fibre optic cable in a typical internal datacomms environment,
Venue	Melksham, Wiltshire
Duration	Depending on units selected—Either 5 or 9 days

COURSE CONTENT

Working Safely with Optical Fibres in an Internal Environment

- Safe working procedures of installation of fibre cables
- ♦ Safe working in preparation of fibre cables
- Special precautions and safe working procedures in relation to splicing and termination

Recommended Installation Procedures

- Use of fibre optics in LAN.s
- Types of optical fibres
- Fibre specifications and parameters
- Fibre and cable test methods and documentation
- ♦ Components within an optical fibre communication system
- Best practices and fibre management of installation

Preparation for fibre connectorisation and Splicing

- ♦ Cable characteristics
- ◆ Constructional features of fibre optic cable
- Cutting and stripping tools
- ♦ Fibre preparation, cleaning and techniques used

Splicing Together Optical Fibres

- Principles and methods of splicing
- Cleaving
- Fusion and mechanical splicing equipment and applications
- Performance in relation to industry standards
- Troubleshooting

Terminating Fibre Optic Cable by Fitting Connectors

- Types and uses of common connectors
- Termination tools and materials
- Fitting procedures for connectors
- ♦ Common faults in termination
- Performance tests

Testing Fibre Optic Links

- Measuring loss
- Test equipment and their features
- ♦ Testing procedures
- Operating test equipment
- Understanding and identifying test results

Exam and Assessment Method

City & Guilds Multiple Choice Assessment

♦ Online 1 hour City & Guilds—Multiple choice









www.fibreplus.co.uk tel. 01225 636041 F1 Avonside Enterprise Park Melksham, Wiltshire. SN12 8BT



City & Guilds 3667-02 Unit 3 Fibre Optic Cabling in an External Environment

Description This unit is concerned with the installation, splicing, termination and testing of fibre optic cables, typically a multi-element, singlemode fibre cable of at least 24 fibres, used in an external environment

Venue Melksham, Wiltshire

Duration Depending on units selected—Either 5 or 9 days

COURSE CONTENT

Working Safely with Optical Fibres in an External Environment

- Safe working procedures and regulations in regard to;
- Installation
- Splicing
- Testing
- Industry legislation/guidance

Recommended Installation Procedures

- ♦ Fibre optics in communication networks
- ♦ Fibre specifications and parameters
- ♦ Test and inspection methods
- ♦ Components and equipment
- Best practices and fibre management
- ♦ Testing methods
- ♦ Cable laying procedures

Preparing Fibre Optic Cable for Fibre Splicing

- Identifying Cables
- ♦ Constructional features of singlemode fibre
- ♦ Cable cutting and stripping tools
- Fibre cleaning materials and techniques
- Preparing cable for splicing

Joining Fibre Optic Cables by Splicing

- ♦ Cable jointing environment
- Working principles of splicing
- Preparing bare fibre
- Splicing fibres
- Sealing and cable retention for joint enclosure

Terminating Fibre Optic by Splicing on pre-terminated pigtails

- ♦ Suitable connectors for telecoms environment
- ♦ Cable termination
- Cleaving ,tools and techniques
- Splice management and protection systems

Testing Fibre Optic Links

- Test methods
- ◆ Testing equipment i.e ILM, OTDR.
- Understanding results
- Documenting and comparing results

Exam and Assessment Method

City & Guilds Multiple Choice Assessment

- ♦ Online 1 hour City & Guilds—Multiple choice
- Assessed practical exercises









www.fibreplus.co.uk tel. 01225 636041 F1 Avonside Enterprise Park Melksham, Wiltshire. SN12 8BT