Building Partnerships

Fibreplus Ltd
Network Specialists

Fibre Optic Training & Sales
Fibreplus Ltd.
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Modulated Fibre Optic Courses

Courses which can be delivered at our custom built training centre or at the customers own site,

1. Courses delivered at the customers own site may require changes to specified module times listed below, this is dependant on the customer site suitability, number of candidates and equipment required.
2. The time scales below are set using our own custom built training centre, which have simulators that allow listed time scales to be achieved.

City & Guilds 3666 -02 Courses

Courses which can be delivered at our custom built training centre or at the customers own site,

1. City & Guilds Unit 1. Basic Principles of Communications (mandatory) along with one or more of the optional units listed below.
2. City & Guilds Unit 2. Installation & Testing of Fibre Optic within an internal environment.
3. City & Guilds Unit 3. Installation & Testing of Fibre Optic within an external environment.

All of the above City & Guilds courses can be delivered over 5 days total if provided at our custom built centre.

Delivery at the customers own site will depend on customer site suitability i.e. classrooms, equipment required, number of candidates etc.

Bespoke Fibre Optic Courses

Broken-down into elements, choose only the elements you require, remembering that times provided for each module is guided learning hours, dependent on equipment, previous experience and or knowledge of candidate's.

Content as follows:

Theory and Underpinning Knowledge;

Basic Fibre Principles

- Fibre Characterisation
- Micro & Macro Bending
- Design issues
- Fibre & Cable Types
- dB & dBm. Loss and Power
- Wavelength & Frequency

Immediate Content Covers 4 hours

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Fibre Optic Variants and Standards

Various Fibre, Emitter & Detector Types with design considerations

- OM1, OM2, OM3, OS1 & OS2
- G651, G652, G653, G655 & G657
- From Led to Laser and PIN to APD Detectors
- Dispersion and Bandwidth limitations

Immediate Content Covers 3 hours

Installation Principles

- Working at Height, Laser Safety & Confined Spaces Understanding
- New installation, Faults and system changes
- Rodding, Pulling, wrap and lashing principles

Immediate Content Covers 2 hours

Connector & Field Installable theory and underpinning knowledge

- Understanding basic connector elements, type and uses
- Polish types and function
- Back reflection & insertion loss
- Connector and uniter/adapter issues

Immediate Content Covers 2 hours

Internal ODF installation & testing theory and underpinning knowledge

- Fibre & Cable handling
- ODF elements
- OLB (optical loss budget), ILM & VLS testing
- Installation Principles:

Understanding good Cleaving principles
Mechanical and Fusion Splicing Principles and issues
Connector, Pigtail, Mechanical Splice Types and uses
Connectors/pigtails and uniter/adapter issues
Fibre management, dressing in and bending issues

Immediate Content Covers 4 hours

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External enclosure installation & testing theory and underpinning knowledge

- Fibre & Cable handling
- Enclosure/joint elements & types
- Installation Principles:

Understanding good Cleaving principles
Mechanical and Fusion Splicing Principles and issues
Fibre management, dressing in and bending issues

Immediate Content Covers 3 hours

Fibre Optic testing theory and underpinning knowledge

- Visible Light Testing (VLS testing)
- Insertion Loss Testing (ILM Testing)
- Fibre Identifiers
- Optical Loss Budgets (OLB) for systems

OTDR theory and underpinning knowledge:

- OTDR operation and testing principles
- Understanding and interpretation of traces
- Understanding and classification of event types
- Macro & Micro bending
- Understanding Back Reflection and Insertion Loss associations

Immediate Content Cover 6 hours

Practical Workshops:

All of the following workshops provide hands on practical training but without the associated theory.

Practical Connector and Field Installable Workshop

Prepare and polish connectors
Test and assess Patch Constructed patch cord/reference lead

Immediate Content Covers 2 hours

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Practical External Enclosure & Testing Workshop

- Prepare OF cable and dress into enclosure
- Prepare and routing of tubes within enclosures
- Splice, dressing fibres into splice trays
- Sealing, testing and laser safety labeling of enclosures

Immediate Content Covers 7.5 hours

Internal ODF Practical Installation Workshop

Splice, dress into 12 port Patch Panel and testing
Using a Microscope & Visible Light provide a report
Assess test results and comment on outcomes

Immediate Content Covers 4.5 hours

Practical Fibre Optic Testing Workshop

VLS test and report
ILM setup and testing; both ways at two wavelengths and report
Basic OTDR Setting-up i.e. refractive index, length, wavelength and pulse width
Testing installed system in both directions at two wavelengths
Report results of events, associated losses, indicating faults and location
Create final documentation for commissioning

Immediate Content Covers 4 hours

You may choose from any of the above elements to create a course which suits your needs.