CABLING & FIBRE OPTICS · FIBRE OPTICS, SPLICING & TESTING

Fibre Optic Fundamentals

أساسيات الألياف الضوئية

2 days | Foundation | In person · Live online | Arabic & English

A clear, practical introduction to fibre optics. You will learn how light travels in fibre, the difference between single-mode and multimode, the main cables, connectors and components, and how to handle, clean and inspect fibre safely before you move on to splicing and testing.

WHO IT'S FOR

Technicians, installers, network staff and engineers starting to work with fibre-optic networks.

BEFORE YOU START

No formal prerequisites: bring curiosity and a willingness to practise.

WHAT YOU'LL LEARN

- Explain how light is guided in optical fibre.
- Compare single-mode and multimode fibre and their uses.
- Identify fibre cable types, connectors and passive components.
- Handle, clean and inspect fibre safely.
- Calculate a simple optical loss budget.

Training a team?
We run this course privately for organizations, on your dates, at your site or ours, and adapt the examples to your network and equipment.

COURSE OUTLINE

5 modules, 2 days

MODULE 01

How fibre works

- Light, wavelength and refraction
- Core, cladding and coating
- Attenuation and dispersion

MODULE 02

Fibre types

- Single-mode and multimode
- Fibre categories and applications
- Bend-insensitive fibre

MODULE 03

Cables and components

- Loose-tube and tight-buffered cables
- Connectors and adapters
- Splitters, patch panels and closures

MODULE 04

Safe handling

- Fibre and laser safety
- Cleaning and inspection
- Storing and routing fibre

MODULE 05

Loss budgets

- Sources of loss
- Calculating a link budget
- Practical exercise

ALSO IN FIBRE OPTICS, SPLICING & TESTING

Fibre Optic Fusion Splicing, **Fibre Testing & OTDR Analysis**, **Optical Network Simulation with OptiSystem**, **Optical Fibre Transmission Engineering: End to End**

Enrol or ask a question

In person in Damascus · Live online · Private training for teams. Tell us your goals and we will send the dates, the fees and the right level for you.

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