CABLING & FIBRE OPTICS · FIBRE OPTICS, SPLICING & TESTING

Optical Fibre Transmission Engineering: End to End

هندسة الإرسال بالألياف الضوئية: من طرف إلى طرف

10 days | Advanced | In person · Live online | Arabic & English

A complete, practical journey through optical transmission. Over ten days you will cover fibre physics and components, light sources and detectors, splicing and testing, amplifiers, WDM and DWDM, OTN and ROADMs, and finish with high-level and low-level design of a real link from field survey to documentation.

WHO IT'S FOR

Engineers who want to become all-round optical transmission specialists.

BEFORE YOU START

Basic telecom or electronics knowledge

WHAT YOU'LL LEARN

- Explain fibre types, transmission windows and impairments.
- Select sources, detectors and passive components.
- Splice, test and troubleshoot fibre links.
- Design amplified WDM and DWDM systems.
- Produce HLD and LLD documents for a real link.

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

6 modules, 10 days

MODULE 01

Fibre physics and components

- Single-mode and multimode
- Transmission windows
- Passive components

MODULE 02

Sources and detectors

- LEDs and lasers
- Photodetectors

MODULE 03

Splicing and testing

- Fusion splicing
- Power meters and OTDR

MODULE 04

Impairments and amplification

- Attenuation and dispersion
- EDFA, Raman and SOA

MODULE 05

WDM, OTN and ROADM

- CWDM and DWDM
- OTN
- ROADM networks

MODULE 06

Design project

- Field survey
- High-level and low-level design
- Documentation

ALSO IN FIBRE OPTICS, SPLICING & TESTING

Fibre Optic Fundamentals, **Fibre Optic Fusion Splicing**, **Fibre Testing & OTDR Analysis**, **Optical Network Simulation with OptiSystem**

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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