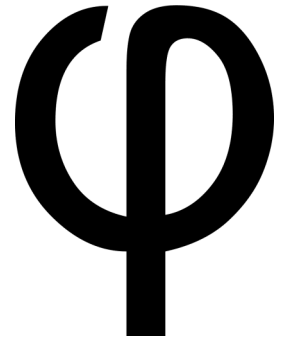


Optical Network Training



Phibre is offering a portfolio of training in optical networks ranging from executive overviews through to practical courses.

Optical Networks for Engineers:

Advanced level course designed for staff who install, test and maintain optical networks. Course content includes properties and types of optical fibres and cables, *connection types*, optical testing methods, passive and active components, digital payloads types and laser eye safety.

Course objective: to provide theoretical and practical experience in a class based environment. Attendees will learn all aspects of fibre handling, splicing to network design of 1G to 100G transmission systems and OSI model of digital payloads. In addition attendees will gain hands on experience using modern fibre splicers` and multiple test and evaluation equipment used in optical network installation and maintenance. There are no pre-requisites needed to attend this course.

Course Contents:

- **Introduction:** Optical fibre overview, Bandwidth demands and common terms
- **Physics of optical fibre networks:** Refraction, reflection, total internal reflection, nonlinear medium and signal effects
- **Propagation of light in optical fibre:** Attenuation, loss and dispersion
- **Types of optical fibre and cable types:** Multimode and single mode fibres, Overview of various cables versions and manufacturing methods
- **Splicing and connectors:** Mechanical splicing, fusion, connector types
- **Optical fibre testing:** Visual and power, optical time domain reflectometry (OTDR), optical spectral analyser (OSA), measurement methods and results
- **Passive optical components:** Isolators, attenuators, couplers, splitters, circulators, filters, Mux/Demux, dispersion compensation
- **Active components:** Transmitters, receivers, amplifiers types and performance, tuneable filters, optical switches, wave selective switch
- **Network configuration:** Data, transmission and mobile networks
- **Digital payloads types:** PDH, SDH, WAN, LAN, OTN, IP, ATM, Ethernet, Fibre channel
- **Laser eye safety:** Installation hazards and laser standards

This product information is for guidance only. Phibre reserves the right to change product information and specification without notice.

ΦPhibre
OPTICAL FIBRE EXPERTS

Course details:

Reference:

ONET (Theory)
ONEP (Practical)

Delegate number:

6 (max)

Duration:

3 day ONET
5 day ONEP

Hours :

9:30 - 4:30

Who should attend

- Senior executives
- Project managers
- Engineers
- Sales & Marketing
- Technical staff

How to Book

- www.phibre.co.uk
- harvypadda@phibre.co.uk