

# ADVANCED FIBRE CHARACTERISATION

**LinxcomUK** is providing you with industry standard qualifications in Fibre Optics. The scheme is approved by the UK Qualifications and Curriculum Authority (QCA) to give successful candidates a **Level 2 award**.

With constant changes in the industry, our course content has been updated with the Fibre Optics Industry ensuring the syllabus is both **relevant** and **up-to-date** including industry standards and codes of practice.

1

## Introduction

Fibre Fundamentals & Terminology, Safety & Standards

2

## Testing Configurations

Acceptance tests, installed system characterisation, fault finding

3

## Basic Testing

Connector inspection, continuity testing, power meter & light source, ILM and RLM

4

## OTDR Measurements

Principles of operation, features, measurements, saturation & ghosts

5

## OTDR Hands-on

Set-Up, Practical measurements, adjustments, recording data

6

## OTDR Measurement Problems

Launch Problems, Ghosts, "Gainers", Saturation & Linearity problems

7

## OTDR Result Analysis

Data formats, emulation software, bi-directional analysis, macros

8

## OTDR Bidirectional Analysis

Hands-on session using OTDR Post-Processing Software

9

## Spectral Attenuation Measurements

Principles, spectral parameters, ITU Grid, Spectral loss, Isolation & Measurements Techniques

10

## OSA Practical Workshop

Spectral analysis testing of fibre systems using field OSAs

11

## Fundamentals of Dispersion

Dispersion basics, fibre types, polarisation, mode coupling

12

## PMD Measurements

Measurement principles, problems, analysis & calibration

13

## Complex Network Issues

Effects of splitters, WDMs, EDFAs & Raman Optical Amplifiers

14

## Generating Final Test Report

Correlation of ILM & OTDR Results, objective and subjective assessments & how to express a summary report

15

## Assessment

Assessment of practical skills, plus written test

Course duration is 3 days. Hours are 9:30am-5pm. Max 6 delegates.

For more information relating to this course or any other courses we have available please contact us at [sales@linx-com.com](mailto:sales@linx-com.com)