



The market leader Communications Training

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# Fibre Optics in an Internal Environment

## 2-day course

This 2-day programme simplifies fibre termination techniques and provides installation engineers and supervisors with sufficient knowledge to competently install, terminate and test numerous multimode fibre optic cable, connectors and fibre network infrastructures.

Focusing on multimode fibre optic termination and testing, this course demystifies the techniques, jargon, connectors and equipment used within fibre optic networks. Starting with an overview of transmission theory, the fibre optic industry and principles behind it, the course continues with practical sessions on testing and terminating fibre optic cable. Those attending gain hands-on experience with the latest technologies and advancements within the fibre optics industry.

### Course Overview

#### Introduction

- Explanation & advantages of fibre & fibre optic links

#### Theory of light

- Electromagnetic spectrum measurement
- Optical windows
- White & infra-red comparisons

#### Fibre optic light transmission

- Bandwidth & dispersion
- Multimode fibre & fibre parameters
- Splicing & testing overview

#### Optical fibre cables

- Primary coated fibre
- Multi-fibre breakout cables, external cables

#### Connectors

- Causes of loss
- Connector types - ST, SC, SFF, LC.

#### Testing

- Stages of testing
- Insertion loss measurement & testing a system
- Light source & power meters

#### OTDR

- Operational overview of Optical Time Domain Reflectometers

#### Fibre cable termination

- Procedure, end-face quality, polishing paper & epoxy types

#### Health & safety

- General fibre safety, laser classification & safety, eye safety conditions.

40% Theory 60% Practical

▶ Qualification  
BICSI CECs: 14 ITS & 14 RCDD  
CNet certificate

▶ Who should attend

Installers, facilities managers, maintenance engineers or anyone wanting to gain an insight into fibre in an internal environment

▶ Related Training

Fibre Optics in an External Environment  
Design & Advanced Testing of Fibre Systems  
Testing & Commissioning Fibre Optics in Telecommunications Networks

Polarisation Technology within Fibre Optic Networks  
Polarisation Mode & Chromatic Dispersion Testing

▶ Course objectives

Delegates gain the knowledge and practical expertise to undertake the installation, termination and testing of multimode fibre optic cables and a full understanding of multimode applications and components

▶ Prerequisites

No previous experience is necessary

▶ Course Location

Temple, Dublin

