

# Fibre Optics Training Course

Fibre optic links are becoming an increasingly common part of cabling infrastructures. Installers must be competent when specifying, terminating, testing and installing fibre optics.

## Course Description

The Connectix Fibre Optic Course aims to offer a balanced mix of theory and practice relating to the use of fibre optic cabling within the enterprise/commercial sector. Application standards are also introduced regarding the importance of their consideration when specifying fibre cable and connector types for particular applications.

This course requires no prior knowledge or experience. Inexperienced delegates will leave with adequate knowledge and confidence for specification and successful installation of fibre optic links.

Delegates new to fibre optic cabling and those already experienced in practical installation will improve their formal knowledge of the theory behind the operation of fibre and the choices available in the selection of fibre and termination methods.

The course is run by a fully qualified Connectix Cabling Systems trainer who is well versed in installations and is constantly updated in line with the rapidly changing standards, technologies, and terminologies.

Questions during the course are actively encouraged.

## Features and Benefits

- Delegates gain an understanding of how to plan, install and test fibre optic cables and connectors successfully.
- The relationship of fibre optic cabling to commonly specified cabling standards will be understood.
- A fibre optic technology overview with theory of operation relating to real world applications.
- Gives delegates confidence to terminate and test fibre optic cables and connectors successfully.
- Hands-on termination using a fusion splicer and mechanical terminations.
- Testing with Light Source and Power Meter.
- Certificate awarded for successful completion.
- Pre-requisite for Connectix Approved Installer Status.
- An 'optional' pre-requisite for our passive optical network course (PON).

## Course Overview

### Introduction to Connectix

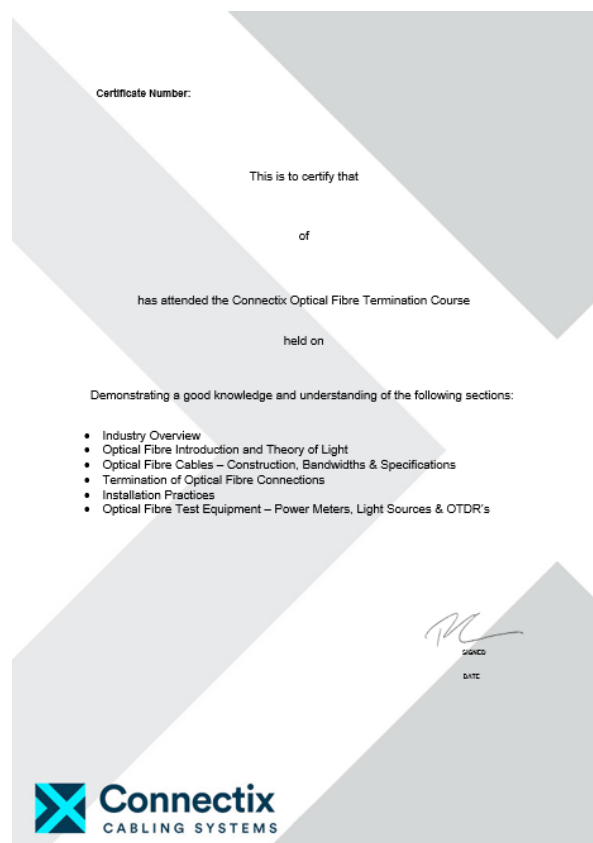
- Background, history and activities
- Information regarding 25 Year Warranties

### Course Introduction

- Course materials, objectives, test information

### Fibre Optic Cabling Theory

- What is fibre, how is it constructed?
- How does it compare to copper and where is it used?
- Basic and general theory
- Multi-mode and Single-mode, what is the difference?
- Fibre within the structured cabling standards
- Selecting the right fibre and grade for the installation
- Fibre types, construction, and common terminology
- Armoured cables, why, which and where?
- Terminating hardware (patch panels and hardware)
- Loss budgets, what does it all mean, how to calculate, do we need to?
- Blown fibre, PON and other fibre developments



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## Practical Detail

- Fibre cable construction and selection
- Fibre connectors
- Presentation of installed fibre links into panels
- Fibre termination – health and safety considerations
- Review of termination methods with summary
- Fibre preparation for termination
- Cleaning fibre ends and understanding the importance
- Practical termination exercises
- Fusion splicing, mechanical terminating
- Rapid fibre

## Fibre Link Testing

- Why test? What to test?
- Methods of testing
- Different types of test equipment
- Testing exercise
- Loss testing with Light Source and Power Meter

## Training Centre Opening/Course Timetables

The training centre will be open from 8:45am with a selection of tea and coffee available.

Courses start at 9am. Courses aim to finish by 5:00pm with the training centre being closed by 5:30pm.

The course timetable may be flexible during the day, however we will start promptly, please ensure you arrive at the start time specified in the course itinerary.

## Course Availability

Please contact Connectix Cabling Systems for up-to-date course availability information.

Telephone: 01376 346600

Fax: 01376 346620

Email: [training@connectix.co.uk](mailto:training@connectix.co.uk)

## General Guidance & Information

Training is primarily held at the Connectix Training Centre based at Connectix Unit 620 The Hub in Braintree, Essex.

If required, courses can be held externally at a customer's site. Typically, 6 or more delegates will be required to justify an external course.

Please note that while external courses aim to provide the same value as those held in our training centre, the practical exercises may not be as comprehensive or offer the same level of learning benefit.