

UFO/PON Installation Training

Correct installation procedures are a fundamental part of today's structured cabling industry. We are committed to ensuring that our cabling systems are installed quickly, professionally and in compliance with the rapidly changing standards proposed by the ISO/IEC, ANSI/TIA and CENELEC. Modern building designs often include consideration for cabling infrastructures to support voice and data distribution. It is increasingly the case that tender documents, project specifications and detailed plans make reference to relevant standards and terminology that anyone working in this field should be aware of. Passive Optical Networks are a way of cabling sites/premises/users without the need, in the majority of cases for traditional copper cabling or distributed active equipment.

Course Description

PN02 is a part theory, part practical training course held at our Braintree HQ specifically tailored to engineers who are tasked with deploying and installing the products. The majority of the time is spent 'hands-on' working to install and test our unseen fibre optic range (UFO) and also associated passive optical networking components such as enclosures and splitters. We also have a live OLT and ONT set up connected.

Features and Benefits

- Enables engineers to understand how PON systems work.
- Explains the different ways PON systems can be designed and deployed.
- Using a 'mock-up' of apartments, cabling is undertaken using our bespoke products.
- Terminating and testing techniques are discussed and undertaken.
- Engineers have the chance to ask questions relating to the deployment of PON and POL systems.

Course Overview

Introduction to Connectix

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

Course Introduction

- Course materials, objectives, test information

Pre-Requisites

- It is anticipated that delegates would have a prior knowledge of basic fibre optic technology, jargon, components and cables and some experience of fusion splicing.
- It would be beneficial but not essential to have undertaken the online PON/POL theory course.

PON Theory

- Addressing the components compared to structured cabling
- Key active components of a POL
- 10G ready FTTH
- Designing splitter deployments
- APC connectors for reflections and return loss
- Loss budgets
- Insertion Loss
- dB vs dBm
- UFO installation guide
- Specific pebble guidelines

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PON Practical

- Mounting midspan boxes (PoE) and marking slit points
- Using tool to slit sheath of midspan cable
- Fixing and gluing midspan cables
- Installing pebble cables and gluing
- Connecting into an enclosure with a splitter
- Testing passively for dB readings
- Checking connected OLT for dBm readings at various points
- ONT connections
- Dynamic range testing
- Checking out different enclosures
- Looking at the difference between hold and cold glue systems Fibre IRS Systems

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

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.