

Connectix Training Programmes

UFO/PON Engineer 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, EIA/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 differ from other cabling systems.
- 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

Detail

Introduction to Connectix

- Background, History and activities
- How we work with ISP's, Altnets and Installers

Course Introduction

- Housekeeping, Course materials and Objectives

Pre- Requisites

- It is anticipated that delegates would have a Prior knowledge of basic fibre optic technology, jargon, components and cables and must be able to fusion splice.
- It would be useful 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

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
- Connect into an enclosure with a splitter
- Test passively for dB readings
- Check connected OLT for dBm readings at various points
- Connect ONT and connect to it
- Use different test tools
- Check out different enclosures
- Look at the difference between hold and cold glue systems

Timescales

It is intended that delegates will arrive for 0930am with a view to start at 10am. The late start will enable more delegates to travel rather than have to stop overnight (distance dependent).

It is anticipated that the course will finish around 3pm

Important

It is really important that delegates can splice. Certain activities involve splicing single mode cables and there is no instruction on basic cleaving and/or splicing.

A maximum of 6 delegates would be able to attend. If possible, fusion splicers should be taken to the facility although 3 are available on the day for those that are unable to bring them.