

# Connectix Training Programmes

## Structured Cabling Training Course

### Part 1 - Theory

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 and EIA/TIA.

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.

### Features and Benefits

- Gives delegates the confidence to install and test Connectix Cabling Systems correctly.
- Coverage of industry standards, installation techniques and test equipment
- Introduction to typical structured cabling system infrastructure elements.
- Certificate awarded for successful completion based on a test pass.
- Pre-requisite for Connectix Approved Installer Status

The Connectix Copper Structured Cabling Theory Course has the following key elements (many more than this):

#### Introduction to Connectix

- Background, history and activities

#### Course Introduction

- Course materials, objectives, assessment

#### Structured Cabling Theory

- What is structured cabling?
- Category 5e through to Category 8
- Cat 5e or Cat 6 what are the advantages ?
- Generic cabling designs
- Where should shielding be considered ?
- Different panels for different scenarios
- CPR regulations
- Cable preparation and testing
- 10Gigabit Ethernet update

#### Installation of Structured Cabling

- Overview of the installation process
- Cable installation practices
- The importance of twisted pair
- Cable termination – how it should be done

#### Structured Cabling System Testing

- Why test? What to test?
- Methods of testing
- Different types of test equipment
- Testing for warranty application

Certificate Number: «Number»

This is to certify that

«Name»

of

«Company»

has attended the Connectix Structured Cabling Installation Course

held on

«Date» «Date»

Demonstrating a good knowledge and understanding of the following sections:

- Industry Overview
  - Overview of Local Area Networks
  - Telecommunications Standards & Supporting References
  - Testing & Troubleshooting Category 5E/6/6A Links
  - Category 6A, Category 6, Enhanced Category 5, Structured Cabling LAN Installation Practices

SIGNED \_\_\_\_\_

«Date» \_\_\_\_\_

DATE

**Connectix**  
Cabling Systems

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## Structured Cabling Training Course

### Part 2 - Practical

After successfully completing the theory element (Part 1) and passing the short test delegates will complete 'Part 2' for practical training.

### Features and Benefits

- Gives delegates confidence to terminate and test different categories of copper cables successfully.
- The relationship differing Categories to cabling standards will be understood.
- Hands-on termination 'punchdown' and keystone on Cat 6 and Cat 6a
- Testing using a Fluke tester
- Certificate awarded for successful completion

The Connectix Copper Structured Cabling Practical element is a mixture of practical work and hands on exercises used to relate theory and practise to real world scenarios with the following key elements (many more than this) :

#### Fibre Optic Cabling Theory

- Brief 're-cap' of Part One

#### Practical Detail

- Different Category cable construction and selection
- Presentation of cables into patch panels into panels
- Review of termination methods with summary
- Cable preparation for termination (both unshielded and shielded)
- Practical termination exercises

#### Copper Link Testing

- Why test? What to test?
- Methods of testing (PL, Channel, MPTL)
- Different types of test equipment
- Testing exercise

### Training Centre Opening/Course Time Tables

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 have to start promptly, please ensure you can 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 the Connectix HQ 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.