



The market leader Communications Training

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# Security Systems Cabling

## 5-day course

The demand for skilled and qualified professionals to design, install and maintain technology-based security systems is growing rapidly. Technology is taking over from physical security as businesses, local Governments, airports, schools and individuals are increasingly utilising a range of surveillance, access control and alarm systems, to protect people and property. Surveillance systems are also being used by Councils to protect town centres, whilst businesses are monitoring and controlling access to sensitive areas both externally and internally. Added to this is the domestic market for intruder alarm systems.

This 5-day programme covers the fundamentals of copper and fibre cabling for security systems installations, providing the skills and confidence to install and test copper and fibre cabling connecting today's high-tech systems. Successful delegates gain a BTEC Intermediate Award in Security Systems Cabling (copper & fibre) and can attend the recommended next course Security Systems Installation.

### Course Overview

#### COPPER CABLING

##### Electrical theory

- Fundamentals of data cables, analogue & digital signals

##### Types of cable

- Co-axial cabling, UTP & ScTP with (FTP) twisted pair; multicore cables, cable categories Cat 5E & Cat 6

##### Standards, codes & methodologies

- Wiring standards, colour codes, installation standards & methods

##### Testing & fault-finding

- Post installation field-testing, locating & rectifying faults using multimeters & level II & level III testers

##### Health & safety

- On-site safety issues, PPE, responsibilities

#### FIBRE OPTIC CABLING

##### Theory of light transmission & attenuation

- Basic concepts of light, transmission through optical fibre, micro bending, temperature & alignment, Fresnel reflection, numerical aperture

##### Tooling & fibre preparation

- Hand tools, microscopes, polishing tools, stripping & cleaning

##### Connectors, termination & splicing overview

- ST, SC connectors, epoxy pre-filled, cold cure, common usage, termination methods, pigtail fusion splicing

##### Installation techniques

##### Testing & fault-finding

##### Health & safety

60% Theory 40% Practical



#### ▶ Qualification

BTEC Intermediate Award in Security Systems Cabling (copper & fibre)  
BICSI CECs Applied for CNet Certificate

#### ▶ Who should attend

Those seeking to enter the security systems cabling and installation market

#### ▶ Related Training

Security Systems Installation  
Residential Network Design & Installation  
Design & Advanced Testing of Copper Systems  
Design & Advanced Testing of Fibre Systems  
Introduction to CCTV  
Introduction to Access Control  
Introduction to Intruder Alarms

#### ▶ Course objectives

Delegates will have gained skills and knowledge to undertake cabling for technology-based security systems

#### ▶ Prerequisites

No previous experience is necessary

#### ▶ Course Location

Bury St Edmunds  
Suffolk

Tel: 0870 112 6403

[www.cnet-training.com](http://www.cnet-training.com)

[info@cnet-training.com](mailto:info@cnet-training.com)