

Tel: 0870 112 6403

www.cnet-training.com E-mail: info@cnet-training.com

Tailored for cable installers who need to keep abreast of the latest installation practices & standards.

This course provides an opportunity for cable installers to sharpen skills, broaden knowledge of data cabling and learn about new innovations, trends and emerging technologies. Held over six consecutive days the training covers both theory and practical skills vital to any installer's on-going industry knowledge.

Industry orientation

Structured premises cabling systems

- Entrance facilities, backbone, horizontal, work areas, equipment rooms, telecomms rooms, crossconnects, main, intermediate,

Standards, code & methodologies

Plans & specifications overview

- Blueprints, construction specifications

Media characteristics

- Twisted pair (UTP, ScTP), colour codes, categories of cables, coaxial, optical fibre cables (single & multimode)

Connectors

- UTP, STP-A, ScTP, coaxial, optical fibre, connector pin configurations, colour codes

Transmission characteristics

- AC/DC review, analogue/digital signals, copper cable media, optical fibre media, cable bandwidth (megahertz vs. megabits per second)

Grounding, bonding & electrical protection

- Basic design & installation

Defining LANS

- Characteristics, components, benefits, LAN design, LAN cabling systems

Safety

- OSHA, common safety practices, personal protective equipment, hazardous Environments

Professionalism

- Customer relations, communications skills, professional appearance

Preparation for installation

- Building closets, installing grounding infrastructure, installing support system infrastructure, preparing work area outlet locations

Laying cable

- Laying backbone & horizontal twisted pair cable, laying optical fibre cable

Firestopping

- Responsibilities, systems, new & existing penetrations

Cable termination

- Termination of UTP, ScTP, Co-ax plus an overview of: pretermination functions (forming, dressing, fanning & labelling), termination hardware used includes Krone LSA high band, BIX, 66 blocks & the fibre connectors

Splicing cable overview

- Copper & fibreoptic

Cable testing

- Copper cable testing & certification, optical fibre cable testing using a light source & power meter

Cable troubleshooting overview

- Copper & fibre optic cables

Retrofits & system upgrades

- Overview identifying active circuits, overview performance cut overs, removal of abandoned cable

5-day course

70% Theory 30% Practical



Qualification

ITS Installer, Level 2 (BICSI) status

Optional BTEC:

BTEC Advanced Award in Datacomms Installation & Testing

BTEC units towards:

BTEC Advanced Certificate in

Telecommunications Cable Installation

BICSI CECS: 12 ITS & 30 RCDD

CableNet certificate

Who should attend

Experienced cable installers seeking to expand their knowledge of the industry, learn new skills and continue to advance professionally

Related Training

BICSI ITS Technician

BICSI RCDD

Wireless LAN Design & Installation Design & Advanced

Testing of Copper Systems

Design & Advanced Testing of Fibre Systems

Voice Cabling & Key Systems

Fibre Optics in Internal Environments

Fibre Optics in External Environments

Project Management Techniques

Course objectives

Successful delegates the knowledge to install and test cable networks to required standards and obtain some understanding of the Technician's role

Prerequisites

Minimum of 2 years recent, verifiable telecommunications cabling experience. Purchasing the Information Transport Systems Installation Manual for private study is recommended – these are available from BICSI

Course Location

Bury St Edmunds

Suffolk

Tel: 0870 112 6403

www.cnet-training.com E-mail info@cnet-training.com