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5-day course

Gain a comprehensive introduction to installing and testing copper data cable infrastructures.

This programme provides a sound introduction to the fundamentals of cabling for computer networks. On successful completion, delegates obtain the status of BICSI Registered Installer; Level 1, and enter the structured career path which may ultimately lead to RCDD status.

This intensive 6-day course is designed to provide entry level telecommunications cabling installers with the background, knowledge, and basic skills needed to function effectively on the job.

Industry orientation

Structured premises cabling systems

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

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

Grounding, bonding & electrical protection

- Basic design & installation

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

Splicing cable overview

- Copper & fibreoptic

Cable testing

- Copper cable testing using entry level testers (VOM) & continuity testers, overview of optical fibre testing

Cable troubleshooting overview

- Copper & fibre optic cables

Retrofits & system upgrades

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

70% Theory 30% Practical



Qualification

ITS Installer; Level 1 (BICSI) status
Optional BTEC:

BTEC Intermediate Award in Datacommunications
Installation

BTEC units towards:

BTEC Intermediate Certificate in Telecommunications Cable
Installation

BICSI CECs: 12 ITS, 30 RCDD

CNet certificate

Who should attend

Anyone wishing to pursue a career in telecommunications
cabling installation

Related Training

BICSI ITS Installation, Level 2

BICSI ITS Technician

Voice Cabling & Key Systems

Design & Advanced Testing of Copper Systems

Fibre Optics in Internal Environments

Course objectives

Successful delegates gain a foundation knowledge of
structured cabling and the status of ITS Installer; Level 1, an
internationally recognised qualification

Prerequisites

This programme is designed for participants with little or no
telecoms installation experience. Purchasing the Information
Transport Systems Installation Manual for private study is
recommended – these are available from BICSI

Course Location

Bury St Edmunds
Suffolk