



The market leader Communications Training

Customer Focused ▶▶
Quality Driven ▶▶▶▶

BICSI ITS Installer, Level 1

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 5-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.

Course Overview

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 & fibre optic

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
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
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.

▶ **Course Materials**
Transport Systems Installation Manual (ITSIM) is required for classroom work and self study which should be obtained direct from BICSI.

▶ **Course Location**
Temple, Dublin