

Certified Premises Cabling Technician (CPCT)

COURSE DESCRIPTION

The Certified Premises Cabling Technician (CPCT) course combines hands-on training with theoretical instruction to provide the knowledge required for modern structured cabling environments using copper and fibre optic technologies.

This internationally recognised certification provides a strong foundation for professionals working in, or aspiring to work in, telecommunications premises installation. The course covers structured cabling systems, installation practices, network infrastructure design, and testing procedures.

To achieve certification, participants must complete all course modules, demonstrate competency in practical exercises, and successfully pass the final examination.

WHO SHOULD ATTEND?


Contractors, installers, technicians, IT professionals and network support personnel responsible for the installation, operation or maintenance of copper and fibre structured cabling systems.

SOME COURSE BENEFITS

- Internationally recognised premises cabling certification
- Strong foundation in structured copper and fibre cabling systems
- Hands-on experience installing and testing cabling infrastructure
- Understanding of cabling standards and network design principles
- Skills to support modern wired and wireless network environments

+61 3 9381 7888 

INFO@COVERTEL.COM.AU 

114 BAKEHOUSE ROAD, KENSINGTON VIC 3031
AUSTRALIA 

PO BOX 553, NORTH MELBOURNE, VIC 3051
AUSTRALIA 

WWW.COVERTEL.COM.AU 

COURSE OBJECTIVES

Participants will gain the knowledge and skills required to:

- Understand structured cabling systems and telecommunications infrastructure
- Identify copper and fibre cabling types and standards
- Install and terminate copper and fibre cabling systems
- Understand wireless technologies used in premises networks
- Design structured cabling systems for commercial environments
- Perform installation testing and troubleshooting
- Document cabling infrastructure and installation processes

FORMAT

3-day interactive classroom training including theory sessions and hands-on practical exercises.

Maximum attendees: 9 per course.

CONTENT

Module 1 – Introduction to Premises Cabling

Introduction

- History of communications technologies
- Overview of premises cabling systems
- Cabling standards and compliance
- Types of communications cables

+61 3 9381 7888

INFO@COVERTEL.COM.AU

114 BAKEHOUSE ROAD, KENSINGTON VIC 3031
AUSTRALIA

PO BOX 553, NORTH MELBOURNE, VIC 3051
AUSTRALIA

WWW.COVERTEL.COM.AU



Module 2 – Cabling Terminology

Cabling Jargon

- Structured cabling terminology
- Cable types and classifications
- Terminations and connectors
- Cable testing terminology
- Network infrastructure terminology

Module 3 – Communications Networks & Applications

- Computer network fundamentals
- Residential and commercial structured cabling applications
- Use of UTP cabling in networks
- Fibre optic infrastructure in structured cabling
- Fibre, copper or wireless network technologies

Module 4 – Copper Cabling Systems

- UTP cable types
- Twisted pair cable categories
- UTP cable termination methods
- Testing copper cabling systems
- Use of coaxial cables in premises networks

Module 5 – Fibre Optic Cabling

- Role of fibre optic technology in premises networks
- Fibre optic fundamentals
- Selecting appropriate fibre types
- Fibre optic connectors
- Fibre splicing techniques
- Fibre optic testing procedures

Module 6 – Wireless Infrastructure

- Wireless technologies within structured cabling systems
- Wireless standards
- Wireless backbone infrastructure
- Wireless network design considerations

Module 7 – Designing Premises Cabling Systems

- Cabling design criteria
- Pathways and cable management spaces
- Additional network design considerations
- Network documentation and planning

Module 8 – Premises Cabling Installation


- Preparing for installation projects
- Installation checklists
- Site preparation and planning
- Cable installation techniques
- Safety considerations
- Inspection procedures
- Installation best practices

Optical LAN (O-LAN)

- Optical LAN versus traditional LAN architecture
- Advantages and limitations
- Passive Optical LAN infrastructure
- LAN standards
- Optical splitters
- Network design considerations
- Installation practices
- Testing optical LAN systems

Assessment

Participants will complete a 1-hour closed book exam to obtain the Certified Premises Cabling Technician (CPCT) qualification.

+61 3 9381 7888 

INFO@COVERTEL.COM.AU 

114 BAKEHOUSE ROAD, KENSINGTON VIC 3031
AUSTRALIA 

PO BOX 553, NORTH MELBOURNE, VIC 3051
AUSTRALIA 

WWW.COVERTEL.COM.AU 