

Course Overview Text

City & Guilds 3666-02 Communications Cabling Course Overview

Unit 101 Basic Principles of Communications Systems

This unit deals with safe working practices and basic principles of communications systems.

Candidates will:

- Identify safe working practices in communications systems;
- Describe the basic principles of SI Units and symbols;
- Describe the principles of basic electricity (DC);
- Describe the basic principles of communications systems;
- Describe the basic principles of data communications.

Unit 102: Fibre Optic Cabling in an Internal Environment

This unit is concerned with the installation, splicing, connectorisation, terminating and testing of optical fibres in a datacomms environment.

Candidates will:

- Work safely with optical fibres in an internal environment;
- Follow recommended installation procedures;
- Prepare optical fibre cables for connectorisation and splicing;
- Splice optical fibres;
- Terminate optical fibres by fitting connectors;
- Test optical fibre links.

Unit 103: Fibre Optic Cabling in an External Environment

This unit is concerned with the installation, splicing, terminating and testing of optical fibres in an external environment.

Candidates will:

- Work safely with optical fibres in an external environment;
- Follow recommended installation procedures;
- Prepare optical fibre cables for fibre splicing;
- Joint optical fibre cables by splicing;
- Terminate optical fibres by splicing on pre-terminated pigtails;
- Test optical fibre links.

Unit 104: Copper Cabling in an Internal Environment

This unit is concerned with the safe installation, procedures and testing of copper communication cables.

Candidates will:

- Work safely with copper cabling in an internal environment;
- Understand basic electrical theory and safety with reference to data communications cabling;
- Install copper communications cabling, following recommended installation procedures in accordance with current applicable standards;
- Terminate copper communications cabling;
- Test FTP, UTP and multi-core links.

City and Guilds 4322 ITQ NVQ Level 3 Course Overview

Unit 309: Spreadsheets

This unit deals with advanced MS Excel spreadsheets applied to Communications Cabling.

Candidates will:

- Be competent with using and manipulating spreadsheets up to NVQ Level 3
- Apply spreadsheets to Fibre Optic Cabling installation and testing.