



NATIONAL CERTIFICATE IN TELECOMMUNICATIONS [LEVEL 3]

National Certificate in Telecommunications [Level 3]

This is an intermediate qualification for people training to become telecommunications technicians. It builds on the introductory National Certificate in Telecommunications [Level 2] and is typically gained after two to three years of work experience. The qualification is available in seven strands, each reflecting the major sectors within the industry.

They are:

- **Bearer and Switch** – this covers telephone exchange switching equipment, and bearer and multiplexing [transmission] systems for national and international communications.
- **Building and Data Cabling** - telecommunications cabling systems within buildings for voice and data communications.
- **Customer Access Network** - the network of copper, fibre, and/or coaxial cables [outside plant] interconnecting telecommunications customers and switching centres.
- **Customer Premises Equipment** - telecommunications equipment installed in customer premises, such as telephone systems, facsimile, alarm telemetry, digital subscriber lines, electronic funds transfer point of sale terminals [EFTPOS], and cable television.
- **Information and Communications Technology [ICT]** – this strand covers the installation, commissioning and servicing of ICT cabling and equipment in buildings and campuses.
- **Radio** - radio plant and equipment such as point to point wireless links, broadcast radio and television, mobile and cellular radio, studio equipment, radar, direction finding systems, and microwave distribution systems.
- **Rigging** – The rigging strand covers handling and installation of basic telecommunications radio plant and equipment on telecommunications network structures; the knowledge and skills required to ascend and work safely on telecommunications network structures and perform a rescues; the understanding of the sources and types of electromagnetic radiation, the potential dangers of overexposure, risk assessment and mitigation strategies and the practices for climbing on, lifting, positioning, and fixing telecommunications equipment to telecommunications network structures.



This qualification covers the following:

- Customer service techniques.
- Establishment of effective working relationships.
- Use and maintenance of basic installation tools.
- Identification and control of hazards in the workplace.
- Fault finding methodology.
- Managing computer data.
- Understanding of the basic concepts of telecommunications in general and for the chosen strand in particular.
- Installation of residential cabling, telephones, and facsimile machines.
- Practical installation and maintenance of basic plant and equipment corresponding to the chosen strand.