



NATIONAL CERTIFICATE IN TELECOMMUNICATIONS [LEVEL 4]

National Certificate in Telecommunications [Level 4]

This qualification is the final step for those training to become a telecommunications technician. By engaging in this qualification you'll develop the skills and knowledge to install and maintain equipment and plant in your chosen sector. You may also supervise more inexperienced personnel in some situations. The qualification is available in five strands, each reflecting the major sectors within the industry:

- **Bearer and Switch** - telephone exchange switching equipment, and bearer and multiplexing [transmission] systems.
- **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, optical fibre transmission nodes, 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.
- **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.

The qualification is typically gained in the fourth year of work experience and offers the following skills and knowledge:

- Establishment of effective working relationships.
- Development of management skills.
- Use and maintenance of installation tools.
- Identification and control of hazards in the workplace.
- Fault finding methodology.
- Management of computer data.
- Concepts of direct and alternating current and digital electronics.
- Practical installation and maintenance of plant and equipment corresponding to the chosen strand.
- With further training and work experience, technicians can progress to the National Certificate in Telecommunications at Level 6, or the National Diploma in Engineering [NDE].