

Certificate Specification NFQ Level 6

Telecommunications Access Networks Technology 6M2382

1. Certificate Details

Title	Telecommunications Access Networks Technology
Teideal as Gaeilge	Teicneolaíocht Líonraí Rochtana Teileachumarsáide
Award Class	Major
Code	6M2382
Level	6
Credit Value	120
Purpose	The purpose of this award is to enable the learner to acquire the knowledge skills and competence to install and maintain telecommunications access networks equipment and or progress to higher education and training.
Statements of Knowledge, Skill and Competence	Learners will be able to:
Knowledge	
<i>Breadth</i>	Demonstrate a broad range of knowledge of the functioning of a telecommunications network with significant depth in a specialist area.
<i>Kind</i>	Demonstrate specialist knowledge of key concepts and methods underpinning the planning installation and maintenance of telecommunications access networks.
Know How & Skill	
<i>Range</i>	Apply a comprehensive range of installation, commissioning, and maintenance skills in a range of telecommunications network contexts.
<i>Selectivity</i>	Select appropriate techniques tools and equipment to respond appropriately to a range of networks, and customer requirement.
Competence	

<i>Context</i>	Demonstrate ability to operate within a range of network environments ensuring the adoption of safe work practices.
<i>Role</i>	Plan install and or maintain a range of telecommunication networks in range of client contexts.
<i>Learning to Learn</i>	Take responsibility for own learning and or identify the learning needs of others in the telecommunications context.
<i>Insight</i>	Reflect and demonstrate an awareness of social legal and ethical issues.

The learning outcomes associated with this award are outlined in the associated Component Specifications.

Access	To access programmes leading to this award the learner should have reached the standards of knowledge, skill and competence associated with the preceding level of the National Framework of Qualifications. This may have been achieved through a formal qualification or through relevant life and work experience.
Transfer	Achievement of this award will enable the learner to transfer to other appropriate programmes leading to awards at the same level of the National Framework of Qualifications.
Progression	Achievement of this award will enable the learner to progress to other appropriate programmes leading to awards at the next or higher levels of the National Framework of Qualifications.
Progression Awards	Learners who successfully complete this award may progress to a range of different awards.
Grading	Pass Merit Distinction The grade achieved will be determined by the grades achieved on the components

2. Certificate Requirements

The total credit value required for this certificate is 120. This will be achieved by completing:

Award Code	Title	Level	Credit Value
All of the following component(s)			
A minimum credit value of 45 from the following components			
6N2057	Telecommunications Technology	6	15
6N2051	Networks Installation and Maintenance	6	15
6N2049	Electrical Principles	6	15
A minimum credit value of 15 from the following components			

6N1950	Communications	6	15
6N0697	Customer Service	6	15
6N1948	Team Leadership	6	15
6N2191	Leadership	6	15

A minimum credit value of 15 from the following components

6N1946	Work Experience	6	15
6N1947	Work Practice	6	15
6N1949	Personal and Professional Development	6	15

A minimum credit value of 15 from the following components

6N2053	Broadband Service Skills	6	15
6N2054	Consultative Selling	6	15
6N2050	Optic Fibre Installation	6	15
6N2060	Electronics Digital	6	15
6N2056	Front Line Technical Support Skills	6	15
6N2055	Optic Fibre Maintenance and Commissioning	6	15

The remaining credit value of 30 can be obtained by using vocationally relevant component(s) from level 6. A maximum of 15 credits may be used from level 5.

3. Supporting Documentation

1. None.

4. Specific Validation Requirements

There are no specific validation requirements for this award

5. Europass Certificate Supplement

The Europass Certificate Supplement for this award can be accessed at: www.qqi.ie.

6. FET Award Standards

QQI award standards are determined within the National Framework of Qualifications (NFQ), <http://www.nfq-qqi.com>. QQI determines standards for the education and training awards that it makes itself and that are made by providers to whom it has delegated authority to make an award. Providers offering programmes leading to QQI awards **must** have their programme(s) validated in accordance with current validation policy (see www.qqi.ie).

Award standards are designed to be consistent with the NFQ's award classes i.e. major, special purpose, supplemental and minor awards. They are expressed in terms of **learning outcomes** i.e. concise statements of what the learner is expected to know or be able to do in order to achieve a particular award. Learning outcomes for QQI awards are contained within the associated specifications:

AWARD CLASS	STANDARDS	AWARDS
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Major Award	Certificate Specification	Certificate (Levels 1 to 5) Advanced Certificate (Level 6)
Supplemental Award	Supplemental Specification	Supplemental Certificate (Level 3 to 6)
Special Purpose	Specific Purpose Specification	Specific Purpose Certificate (Levels 3 to 6)
Minor Award	Component Specification	Component Certificate (Levels 1 to 6)

Award standards are thresholds, they describe standards of knowledge, skill or competence to be acquired, and where appropriate, demonstrated, by a learner before an award may be made.

Award standards will be reviewed from time to time as necessary. Minor changes may be made by the QQI executive outside the review cycle where necessary. Changes to standards are published on QQI's website. Providers with validated programmes and providers with delegated authority to make awards are responsible for monitoring relevant standards and making necessary responses to changes.

7. FET Credit

Every FET certificate and component specification includes an FET credit value (Table 1). FET credit is quantified in multiples of 5 FET credits (up to 50 hours of learner effort). Learner effort is based on the time taken by typical learners at the level of the award to achieve the learning outcomes for the award. It includes all learning time involved including: guided learning hours, self-directed learning and assessment.

Table 1: FET Credit Values

NFQ Level	Major Awards Credit Values	Default Credit Values Minor Awards	Other Permitted Minor Award Credit Values	Special Purpose and Supplemental Award Credit Value Ranges
1	20	5	10	
2	30	5	10	
3	60	10	5,20	>5 and <60
4	90	10	5,15,20	>5 and <90
5	120	15	5,10,30	>5 and <120
6	120	15	5,10,30	>5 and <120

Guide to Level

Learning outcomes at this level include a comprehensive range of skills which may be vocationally-specific and/or of a general supervisory nature, and require detailed theoretical understanding. The outcomes also provide for a particular focus on learning skills. The outcomes relate to working in a generally autonomous way to assume design and/or management and/or administrative responsibilities. Occupations at this level would include higher craft, junior technician and supervisor.

Strand	Sub-strand	Nature of learning
Knowledge	Breadth	Specialised knowledge of a broad area

	Kind	Some theoretical concepts and abstract thinking, with significant underpinning theory
Know How & Skill	Range	Demonstrate a comprehensive range of specialised skills and tools
	Selectivity	Formulate responses to well defined abstract problems
Competence	Context	Act in a range of varied and specific contexts involving creative and non-routine activities; transfer and apply theoretical concepts and/or technical or creative skills to a range of contexts
	Role	Exercise substantial personal autonomy and often take responsibility for the work of others and/or for the allocation of resources; form and function within, multiple and complex heterogeneous groups.
	Learning to Learn	Learn to evaluate own learning and identify needs within a structured learning environment; assist others in identifying learning needs
	Insight	Express an internalised, personal world view, reflecting engagement with others.

Extract from 'Determinations for the Outline National Framework of Qualifications': NQAI