

**National Vocational Certificate in Information and Communication Technology
(Telecommunication and Wireless Technology) (Level 5)**

NQF Level of qualification: 5

Total credits available: 138

Total credits required: 138

	Compulsory	Elective
level 3 credits available	17	-
level 4 credits available	42	-
level 5 credits available	79	-
Minimum Credit required	138	-

Registration date: 30 July 2020

Scheduled review date: 30 July 2025

Body responsible for the qualification: Namibia Training Authority through the Post and Telecommunications Industry Skills Committee.

Other bodies whose unit standards are included in the qualification: None

1. Purpose

This qualification recognises people who have the competencies required for performing telecommunication and wireless technology tasks. It is awarded to people who have demonstrated the skills and knowledge required to demonstrate an understanding of different types of signals application and communication system, apply knowledge of broadband technologies, demonstrate an understanding of wireless network technologies, demonstrate an understanding of antenna and duplex technology, demonstrate an understanding of vswr (voltage standing wave ratio), radio measurements and frequency bands, demonstrate an understanding of mediums of communication network, install underground cables in telecommunications environment, join copper cables in telecommunications installation, splice fibre optic cables in telecommunications installation, maintain telecommunication cables, monitor information and communications technology networks, demonstrate an understanding of fault tolerance and disaster recovery. They further have a good understanding to identify, create and select business opportunities, develop a business plan as part of business start-up activities.

This qualification is designed to be accessible and flexible. The entry requirement is the National Vocational Certificate in Information and Communication Technology (Telecommunication and Wireless Technology) (Level 4) or equivalent.

2. Regulations for the qualification

2.1 Summary of qualification requirements

This qualification will be awarded to people who are credited with a minimum of 138 credits and have met the requirements of the compulsory section, as well as all requirements for Workplace Integrated Learning (WIL) as laid out in the National Policy On Work-Integrated Learning for Technical and Vocational Education and Training (TVET).

2.2 Detailed qualification requirements

Compulsory

All the unit standards listed below are required.

Field: Manufacturing, Engineering and Technology

Subfield: Information and Communication Technology

Domain: Telecommunication and Wireless Technology

Unit No.	Unit Standard Title	Level	Credits
2287	Demonstrate an understanding of different types of signals application and communication system	5	10
2279	Apply knowledge of broadband technologies	4	8
2288	Demonstrate an understanding of wireless mobile network technologies	5	8
2289	Demonstrate an understanding of antenna and duplex technology	5	12
2290	Demonstrate an understanding of Voltage Standing Wave Ratio (VSWR), radio measurements and frequency bands	5	11
2283	Demonstrate an understanding of mediums of communication network	4	9
2292	Install underground cables in telecommunications environment	5	8
2293	Join copper cables in telecommunications installation	5	8
2294	Splice fibre optic cables in telecommunications installation	5	6
2295	Maintain telecommunication cables	5	6

AND

Field: Manufacturing, Engineering and Technology

Subfield: Information and Communication Technology

Domain: Networking

Unit No.	Unit Standard Title	Level	Credits
2308	Monitor Information and communications technology networks	5	10
2303	Demonstrate an understanding of fault tolerance and disaster recovery	4	7

AND**FIELD:** Business, Commerce and Management Studies**Subfield:** Business Development**Domain:** Entrepreneurship

Unit ID	Unit Standard Title	Level	Credits
733	Identify, create and select business opportunities	3	5
734	Develop a business plan as part of business start-up activities	3	12

3. Credit recognition and transfer arrangements

Credits for any version of a unit standard of the same identification number will be recognised in the award of this qualification.

4. Special arrangements

4.1 Providers seeking accreditation and registration to deliver this qualification must meet the following special arrangements

4.1.1 This qualification will be offered to trainees ***either*** including a 6 months period of **industrial/job attachment**, ***or*** as an **apprenticeship scheme** of a duration determined and agreed upon by the employer and the training provider on a ratio of 70/30 (70% at workplace and 30% at Training institution) basis.

Industrial/job attachment is defined as a period in a workplace setting where a trainee obtains structured practical experience in a specific occupation in order to complement competencies acquired during training at a technical vocational training provider (TVTP).

Apprenticeship refers to the system of work integrated learning, where an apprentice is employed by a company on contractual basis, earning a monthly salary, learning and working side-by-side with an experienced mentor. In this case the employer must be an NTA approved entity (company) to register apprentices and has to identify a suitable training provider to provide the apprentice with the opportunity to gain skills and knowledge from theoretical training.

Employers and training providers are encouraged to consult the **National Policy On Work-Integrated Learning (WIL) for Technical and Vocational Education and Training (TVET) Sector** for further details on WIL implementation.

4.1.2 Providers involved in the assessment of this qualification and the associated unit standards must comply with the national assessment arrangements for the VET system up to and including level 5 of the Namibia Qualifications Framework. Assessment will include performance and achievement assessment acquired through work integrated learning period. Assessment arrangement apply to all occupations and industries which are encompassed in the technical vocational education sector.

- 4.1.3 Providers of this qualification and the associated unit standards must be registered and /or accredited.
- 4.1.4 Providers of this qualification and their associated unit standards must have access to all equipment and facilities detailed in the tools and equipment list for the of the relevant training program.
- 4.2 Competencies covered in this qualification may be assessed through Recognition of Prior Learning (RPL).
- 4.3 Further relevant information and documentation may be accessed through:

Namibia Training Authority

10 Rand Street

Khomasdal

Namibia

Telephone number: 061 207 8550

Facsimile number: 061 207 8551

5. TRANSITION ARRANGEMENTS

5.1 Non National Qualifications Framework transition

None

5.2 National Qualifications Framework transition

This is the first version of this qualification.