

**National Vocational Certificate in Information and Communication Technology
(Telecommunication and Wireless Technology) (Level 4)**

NQF Level of qualification: 4

Total credits available: 102

Total credits required: 102

	Compulsory	Elective
level 3 credits available	30	-
level 4 credits available	65	-
level 5 credits available	7	
Minimum Credit required	102	-

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 demonstrate an understanding of mobile operating modes, demonstrate an understanding of satellite and terrestrial principles, install overhead cables in telecommunications environment, demonstrate an understanding of digital concepts and computer arithmetic, demonstrate an understanding of basic telecommunications, demonstrate an understanding of terrestrial technologies, install and power telecommunication devices, demonstrate an understanding of systems and mediums of communication used in transmission, demonstrate an understanding of next generation networks, demonstrate an understanding of data communication principles and applications, demonstrate an understanding of tcp/ip fundamentals, demonstrate an understanding of wired and wireless network, demonstrate knowledge of customer premises equipment and accessories, apply safety rules and procedures in a telecommunications work environment, demonstrate knowledge of telecommunications cables and accessories and develop innovative ideas for the telecommunication workplace.

The entry requirement for this qualification is an ordinary level certificate or equivalent qualification and the ability to demonstrate basic computer skills, basic communication skills in the english language and basic numeracy. and or the National Vocational Certificate in Information and Communication Technology – Foundation (Level 2). This has been done in order remove barriers of formal educational prerequisites.

This qualification leads vertically to the National Vocational Certificate in Information and Communication Technology (Telecommunication and Wireless Technology) (Level 5) through

participating in full time study at an accredited training provider or through RPL (Recognition of Prior Learning).

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 102 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
2280	Demonstrate an understanding of mobile operating modes	4	6
2281	Demonstrate an understanding of satellite and terrestrial principles	4	10
2285	Install overhead cables in telecommunications environment	4	8
2286	Install and power telecommunication devices	4	5
2282	Demonstrate an understanding of digital concepts and computer arithmetic	4	8
2278	Demonstrate an understanding of basic telecommunications	4	10
2284	Demonstrate an understanding of terrestrial technologies	4	5
2274	Demonstrate an understanding of systems and mediums of communication used in transmission	3	7
2275	Demonstrate knowledge of customer premises equipment and accessories	3	6
2276	Apply safety rules and procedures in a telecommunications work environment	3	4
2277	Demonstrate knowledge of telecommunications cables and accessories	3	6
2291	Develop innovative ideas for the telecommunication workplace	5	7

AND

Field: Manufacturing, Engineering and Technology

Subfield: Information and Communication Technology

Domain: Networking

Unit No.	Unit Standard Title	Level	Credits
2296	Demonstrate an understanding of next generation networks	3	2

2302	Demonstrate an understanding of data communication principles and applications	4	6
2297	Demonstrate an understanding of Transmission Control Protocol/Internet Protocol (TCP/IP) fundamentals	3	5
2304	Demonstrate an understanding of wired and wireless network	4	7

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.