

National Vocational Certificate in Water Supply and Sanitation (Level 2)

NQF Level of qualification:	2
Total credits available:	156
Total credits required:	150 - 156

	Compulsory	Elective
Level 1 credits available	38	None
Level 2 credits available	98	16
Level 3 credits available	4	None
Minimum totals required	140	10

Registration date: 29 November 2018

Scheduled review date: 2023

Body responsible for the qualification: Namibia Training Authority - NTA

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

1 PURPOSE

This qualification recognises people who have the competencies required for performing water supply and sanitation, operations and maintenance tasks. It is awarded to people who have demonstrated the skills and knowledge required to work effectively in the water supply and sanitation sector to understand the application of water supply and sewage treatment processes, operate and maintain mechanical and electrical equipment at treatment plants, take water samples and apply basic chemical principles and undertake basic chemical tests. They are able to calibrate and maintain basic laboratory equipment, demonstrate an understanding of water biology, health and safety at work, apply first aid, numeracy, computer and, administrative skills while interacting positively with others in a workplace environment. They further have a good understanding of HIV and AIDS principles and how to deal with this in their work environment.

The entry requirement for this qualification is Grade 10 and the ability to demonstrate basic communication skills in the English language and numeracy.

This qualification leads to the National Vocational Certificate in Water Supply (Level 3) or the National Vocational Certificate in Sanitation (Level 3).

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 148 credits and have met the requirements of both the compulsory and elective sections, as well as 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: Physical Planning and Construction
Subfield: Water Supply and Sanitation
Domain: Water Supply and Sanitation Operations

Unit ID	Unit Standard Title	Level	Credits
1794	Conduct sampling for water supply and sanitation applications and processes	1	5
1795	Demonstrate basic knowledge of water quality	1	3
1798	Perform basic flow and pressure calculations	2	7
1799	Demonstrate basic electrical knowledge and skills for water supply and sanitation operations	2	3
1800	Demonstrate basic mechanical knowledge and skills for water supply and sanitation operations	2	3
1801	Perform intermediate calculations in water supply and sanitation operations	2	3
1802	Demonstrate a basic understanding of the sewage treatment processes	2	12
1803	Demonstrate a basic understanding of the water treatment process	2	12
1804	Demonstrate the application of basic chemistry in water supply and sanitation	2	10
1805	Demonstrate knowledge of laboratory health and safety	2	4
1806	Carry out routine laboratory tests	2	5
1807	Conduct intermediate laboratory tests for water treatment plant and water distribution systems	2	5
1808	Demonstrate the application of elementary water biology in water supply and sanitation	2	6
1810	Use and maintain hand and power tools for water supply and sanitation operations	2	2
1817	Lift and handle loads	2	5

FIELD: Physical Planning and Construction
Subfield: Water Supply and Sanitation
Domain: Water Supply and Sanitation Systems

Unit ID	Unit Standard Title	Level	Credits
1796	Perform basic plumbing for small water supply and sanitation works	1	4
1797	Perform basic bricklaying for small water supply and sanitation works	2	5
1813	Demonstrate basic pump knowledge and application	2	3

2146	Read and interpret technical drawings and documents	2	2
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FIELD: Physical Planning and Construction
Subfield: Water Supply and Sanitation
Domain: Water Supply and Sanitation Administration

Unit ID	Unit Standard Title	Level	Credits
1811	Perform stores and procurement duties	2	5

FIELD: Physical Planning and Construction
Subfield: Water Supply and Sanitation
Domain: Water Supply and Sanitation Education

Unit ID	Unit Standard Title	Level	Credits
1814	Demonstrate knowledge of the water environment	2	6

FIELD: Communication Studies and Language
Subfield: Communication Skills
Domain: Foundation Communication Skills

Unit ID	Unit Standard Title	Level	Credits
1151	Interact with others in a workplace environment	1	5

FIELD: Health Sciences and Social Services
Subfield: Core Health
Domain: HIV and AIDS Awareness

Unit ID	Unit Standard Title	Level	Credits
1155	Demonstrate basic awareness of HIV and AIDS	1	6

Field: Physical, Mathematical and Computer Studies
Subfield: Information Communication Technology
Domain: Computing Fundamentals

Unit ID	Unit Standard Title	Level	Credits
1156	Apply fundamental computer literacy skills	1	8

FIELD: Health Sciences and Social Services
Subfield: Core Health
Domain: Occupational Health and Safety

Unit ID	Unit Standard Title	Level	Credits
1157	Demonstrate basic knowledge of workplace health and safety	1	7

FIELD: Health Sciences and Social Services
Subfield: Core Health
Domain: First Aid

Unit ID	Unit Standard Title	Level	Credits
844	Provide general first aid	3	4

Electives

A minimum of 10 credits is required from the following unit standards.

FIELD: Physical Planning and Construction
Subfield: Water Supply and Sanitation
Domain: Water Supply and Sanitation Administration

Unit ID	Unit Standard Title	Level	Credits
1812	Perform administrative duties for water supply and sanitation operations	2	4

FIELD: Physical Planning and Construction
Subfield: Water Supply and Sanitation
Domain: Water Supply and Sanitation Operations

Unit No.	Unit Standard Title	Level	Credits
1815	Use water jetting equipment	2	6
1816	Use a vacuum tanker	2	6

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 to deliver this qualification must meet the following special arrangements.

4.1.1 This qualification will be offered to trainees **either** including a period of 6 month 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 encourage 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 framework for the TVET system up to and including level 5 of the National Qualifications Framework. Assessment will include performance and achievement assessment acquired through work integrated learning periods.

Assessment arrangements apply to all occupations and industries which are encompassed in the technical vocational education and training 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 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

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.