

<b>National Vocational Certificate in Civil and Building Services Engineering (Plumbing) (Level 2)</b>
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**NQF Level of qualification: 2**

**Total credits available: 79**

**Total credits required: 79**

	<b>Compulsory</b>	<b>Elective</b>
<b>level 1 credits available</b>	<b>14</b>	<b>-</b>
<b>level 2 credits available</b>	<b>65</b>	<b>-</b>
<b>minimum totals required</b>	<b>79</b>	<b>-</b>

**Registration date:** 31 May 2018

**Scheduled review date:** 2023

**Body responsible for the qualification:** Namibia Training Authority (NTA) through the Mining and Quarrying, Construction, Electricity, Gas, Water Supply and Sanitation Industry Skills Committee (ISC).

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

## **1 purpose**

This qualification recognises people who have the competencies required for performing plumbing tasks. It is awarded to people who have demonstrated the skills and knowledge required to communicate effectively with others as part of plumbing operations, use and maintain power tools and machines as part of plumbing operations, apply basic welding techniques as part of plumbing operations, perform calculations related to plumbing operations, carry out basic levelling as part of plumbing operations, perform basic bricklaying and plastering and rendering tasks as part of plumbing operations, perform basic concreting as part of plumbing operations, carry out basic setting out as part of plumbing operations, read and interpret basic building drawings as part of plumbing operations, install and repair water mains pipe system, perform basic sheet metal work and soft soldering, set out and install water services. They further have a good understanding of applying knowledge of pre-basic mathematics in different contexts, apply knowledge of basic building science in different contexts and apply knowledge of basic building drawing in different contexts.

This qualification leads to the National Vocational Certificate in Civil and Building Services Engineering (Plumbing) (Level 3).

## **2 regulations for the qualification**

### **2.1 summaries of qualification requirements**

The entry requirement is the National Vocational Certificate in Civil and Building Services Engineering (Plumbing) (Level 1) or equivalent.

This qualification will be awarded to people who are credited with 79 credits and have met the requirements of the compulsory sections as well as all the requirements for Workplace Integrated Learning (WIL) as laid out in the National Policy on Work-Integrated Learning for Technical 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: Civil and Building Services Engineering  
Domain: Plumbing

Unit No.	Unit Standard Title	Level	Credit
446	Communicate effectively with others as part of plumbing operations	2	2
447	Use and maintain power tools and machines as part of plumbing operations	2	4
1913	Apply basic welding techniques as part of plumbing operations	2	8
449	Perform calculations related to plumbing operations	2	2
450	Carry out basic levelling as part of plumbing operations	2	3
451	Perform basic bricklaying and plastering and rendering tasks as part of plumbing operations	2	5
452	Perform basic concreting as part of plumbing operations	2	4
453	Carry out basic setting out as part of plumbing operations	2	4
454	Read and interpret basic building drawings as part of plumbing operations	2	3
1914	Install and repair water main pipes system	2	6
1911	Perform basic sheet metal work and Soft soldering	1	14
458	Set out and install water services	2	6

AND

FIELD: Physical, Mathematical and Computer Studies  
Subfield: Numeracy  
Domain: Foundation Numeracy Skills

Unit No.	Unit Standard Title	Level	Credit
890	Apply knowledge of pre-basic mathematic in different context.	2	6

AND

FIELD: Physical, Planning and Construction  
 Subfield: Building Science and Drawing  
 Domain: Foundation Building Science and Drawing Skills

Unit ID	Unit Standard Title	Level	Credits
897	Apply knowledge of basic building science in different contexts	2	6
903	Apply knowledge of basic building drawing in different contexts	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 registration and/or accreditation 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 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**

#### **Version 2**

This qualification was updated and issued as Version 2 in 2018.

Version 1 of this qualification will not be awarded as from 31 December 2020. People currently working towards Version 1 of this qualification are advised to transfer their existing credit awards to this version of the qualification at any time during 2019 and beyond.

People holding the earlier version of this qualification will continue to have their qualification recognised within the Civil and Building Services Engineering Industry (Plumbing) in terms of meeting relevant career and further learning entry and/or progression requirement.