National Vocational Certificate in Electrical Engineering (Level 2) (instrumentation and Control)

Level of qualification: 2

	Compulsory	Elective
level 2 credits available	**54**	**-**
level 1 credits available	**39**	**-**
minimum totals required	**93**	**-**

Registration date:

Scheduled review date:

Body responsible for the qualification: Namibia Training Authority

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

1 Purpose

This qualification recognises people who have the competencies required for performing Instrumentation and Control tasks. It is awarded to people who have demonstrated the skills and knowledge required to work effectively in the Instrumentation and Control industry to plan and organise work in Instrumentation and Control work environment, Apply and maintain safety rules in Instrumentation and Control Workplace environment, Identify, select and use instrumentation hand tools, Demonstrate knowledge of basic electronic components and circuits, Select, use and maintain power tools and equipment, Demonstrate basic knowledge of hydraulics and pneumatics, Carry out soldering and de-soldering tasks, Demonstrate knowledge of level Measurement, Demonstrate knowledge of pressure Measurement, Demonstrate knowledge of Temperature Measurement, Demonstrate knowledge of flow Measurement, Demonstrate knowledge of Mass, Weight and Density Measurement, Apply basic reading skills in a workplace environment, Use workplace documents, Interact with others in a workplace environment, apply knowledge of pre-basic mathematics, engineering science and engineering drawing, provide basic first aid, demonstrate basic awareness of HIV and AIDS, demonstrate basic knowledge of workplace health and safety, entrepreneurship and computer literacy skills.

This qualification is designed to be accessible and flexible. The entry requirement for this qualification is Grade 12 or equivalent qualification.

This qualification leads to the National Vocational Certificate in Electrical Engineering (Level 3) (Instrumentation and Control)

The main focus is on the outcomes of this qualification, not the how, when and where learning occurred. Some people applying to do this qualification may currently be competent in one or more of the unit standards and should then be given the opportunity to apply for 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 93 credits and have met the requirements of the compulsory sections.

2.2 Detailed qualification requirements

Compulsory
All the unit standards listed below are required.

FIELD: Manufacturing and Engineering Technology
Subfield: Electrical Engineering
Domain: Instrumentation and Control

Unit ID	Unit Standard Title	Level	Credits
xxxx	Plan and organise work in Instrumentation and Control work environment	1	2
xxxx	Apply and maintain safety rules in Instrumentation and Control Workplace environment	2	6
xxxx	Identify, select and use instrumentation hand tools	2	4
xxxx	Demonstrate knowledge of basic electronic components and circuits	2	3
xxxx	Select, use and maintain power tools and equipment	2	4
xxxx	Demonstrate basic knowledge of hydraulics and pneumatics	2	2
xxxx	Carry out soldering and de-soldering tasks	2	3
xxxx	Demonstrate knowledge of level Measurement	2	2
xxxx	Demonstrate knowledge of pressure Measurement	2	2
xxxx	Demonstrate knowledge of Temperature Measurement	2	2
xxxx	Demonstrate knowledge of flow Measurement	2	2
xxxx	Demonstrate knowledge of Mass, Weight and Density Measurement	2	2

AND

FIELD: Physical, Mathematics and Computer Science
Subfield: Numeracy
Domain: Foundation Numeracy Skills

Unit ID	Unit Standard Title	Level	Credits
890	Apply knowledge of pre-basic mathematics in different context	2	6

AND

FIELD: Engineering and Technology
Subfield: Foundational Engineering Science and Engineering Drawing
Domain: Foundation Engineering Science and Drawing skills

Unit ID	Unit Standard Title	Level	Credits
893	Apply knowledge of basic engineering science in different contexts	2	6
900	Apply basic knowledge of engineering drawing in different contexts	2	6

AND

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

Unit ID	Unit Standard Title	Level	Credits
843	Provide Basic First Aid	1	3

AND

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

AND

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

Unit ID	Unit Standard Title	Level	Credits
732	Demonstrate knowledge of the requirements of entrepreneurs	2	4

AND

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

AND

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

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

AND

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

Unit ID	Unit Standard Title	Level	Credits
1150	Apply basic reading skills in a workplace environment	1	3
1151	Interact with others in a workplace environment	1	5
1152	Use workplace documents	1	5

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

Providers seeking accreditation to deliver this qualification must meet the following special arrangements.

1. 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. These arrangements apply to all occupations and industries, including Instrumentation and Control, which are encompassed in the vocational education and training sector. A copy of the national assessment arrangements is available from:

   Namibia Training Authority

   Rand Street

   Khomasdal

   Namibia

   Telephone number: 207 8550

   Facsimile number: 207 8551

   Email info@nta.com.na

2. Providers of this qualification and the associated unit standards must be accredited.
3. Providers of this qualification and the associated unit standards must have access to all equipment and facilities detailed in the Special Notes and / or Range Statements in the unit standards that comprise this qualification.
4. Providers in receipt of funding through the NTA to deliver this qualification must use the national curriculum and training materials developed by the NTA for the National Vocational Certificate in Electrical Engineering (Level 2) (Instrumentation and Control)
5. The national curriculum and training materials for this qualification are available from:

   Namibia Training Authority

   Rand Street

   Khomasdal

   Namibia

   Telephone number: 207 8550

   Facsimile number: 207 8551

   Web: www.nta.com.na

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.