

National Vocational Certificate in Mechanical Engineering (Fitting and Machining) (Level 3)
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NQF Level of qualification: 3

Total credits available: 79

Total credits required: 79

	Compulsory	Elective
level 2 credits available	6	-
level 3 credits available	73	-
Minimum credit required	79	-

Registration date: 29 November 2018

Scheduled review date: 2023

Body responsible for the qualification: Namibia Training Authority through the Manufacturing, Automotive Sales and Arts & Crafts 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 fitting and machining tasks. It is awarded to people who have demonstrated the skills and knowledge required to install hydraulic line, demonstrate an understanding of pneumatic and hydraulic principles, use and maintain industrial machines used in the fitting and machining working environment, maintain a gearbox and weld mild steel using the manual arc welding process in the down hand position. They further have a good understanding of applying knowledge of fundamental engineering science in different context; apply knowledge of basic mathematic in different context, and apply fundamental knowledge of engineering drawing.

This qualification leads vertically to National Vocational Certificate in Mechanical Engineering (fitting and machining) (Level 4) 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

The entry requirement is the National Vocational Certificate in Mechanical Engineering (Fitting and Machining) (Level 2) or equivalent.

This qualification will be awarded to people who are credited with a minimum of 79 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: Mechanical Engineering
Domain: Fitting and Machining

Unit ID	Unit Standard Title	Level	Credits
2085	Install hydraulic line	3	15
2086	Demonstrate an understanding of pneumatic and hydraulic principles	3	15
2087	Use and maintain industrial machines used in the fitting and machining working environment	3	15
2088	Maintain a gearbox	3	10

AND

FIELD: Manufacturing, Engineering and Technology
Subfield: Mechanical Engineering
Domain: Metal Fabrication

Unit ID	Unit Standard Title	Level	Credits
236	Weld mild steel using the manual arc welding process in the down hand position	2	6

AND

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

Unit ID	Unit Standard Title	Level	Credits
891	Apply knowledge of basic mathematics in different context	3	6

AND

FIELD: Manufacturing, Engineering and Technology
Subfield: Foundational Engineering Science and engineering drawing
Domain: Foundation Engineering Science and Drawing skills

Unit ID	Unit Standard Title	Level	Credits
894	Apply knowledge of fundamental engineering science in different contexts	3	6

901	Apply fundamental knowledge of engineering drawing in different contexts	3	6
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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 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 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 or 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 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 arrangements 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 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.