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| National Vocational Certificate in Metal Fabrication (Welding) (Level 4) |
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|------------------------------------|------------|
| NQF Level of qualification: | 4 |
| Total credits available: | 104 |
| Total Credits required: | 104 |

| | Compulsory | Elective |
|--------------------------------|-------------------|-----------------|
| level 3 credits: | 33 | - |
| level 4 credits | 71 | - |
| minimum totals required | 104 | - |

Registration date: 29 November 2018

Scheduled review date: 2023

Body responsible for the qualification: Namibia Training Authority-NTA OR through the Mining and Quarrying Construction, Electricity, Gas, Water Supply and Sanitation Industry Skills Committee (ISC) of the 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 Metal Fabrication (Welding). It is awarded to people who gouge metals using manual arc equipment as part of metal fabrication operations; weld aluminum using the tungsten inert gas welding process in the down hand position; weld thermoplastics with electrofusion equipment; weld mild steel using the tungsten inert gas welding process in all positions; perform advanced manual arc welding on aluminium in all positions; perform advanced tungsten inert gas welding on aluminium in all positions; perform advanced manual arc welding on stainless steel in all positions; perform advanced tungsten inert gas welding on stainless steel in all positions; hard face surfaces as part of metal fabrication operations; weld stainless steel pipe in all positions using the tungsten gas arc welding process.

They further have a good understanding of applying knowledge of intermediate mathematics in different context; applying advanced knowledge of engineering science in different contexts; applying knowledge of advanced engineering drawing in different contexts; identifying, create and select business opportunities; develop a business plan as part of business startup activities; and providing general First Aid.

The entry requirement for this qualification is the National Vocational Certificate in Metal Fabrication (Welding) Level 3.

2. regulations for the qualification

2.1 summary of qualification requirements

This qualification will be awarded to people who are credited with 104 credits and have met the requirements of both the compulsory sections, 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

Credits for *all the unit standards listed below are required.*

FIELD: Manufacturing, Engineering and Technology
 Subfield: Manufacturing Engineering
 Domain: Metal Fabrication – Core Skills

| Unit No. | Unit Standard Title | Level | Credit |
|----------|--|-------|--------|
| 244 | Gouge metals using manual arc equipment as part of metal fabrication operations | 3 | 6 |
| 248 | Weld aluminum using the tungsten inert gas welding process in the down hand position | 3 | 4 |
| 1746 | Weld thermoplastics with electrofusion equipment | 4 | 5 |

FIELD: Manufacturing, Engineering and Technology
 Subfield: Manufacturing Engineering
 Domain: Metal Fabrication – Welding

| Unit No. | Unit Standard Title | Level | Credit |
|----------|---|-------|--------|
| 251 | Weld mild steel using the tungsten inert gas welding process in all positions | 3 | 6 |
| 252 | Perform advanced manual arc welding on aluminium in all positions | 4 | 6 |
| 253 | Perform advanced tungsten inert gas welding on aluminium in all positions | 4 | 6 |
| 254 | Perform advanced manual arc welding on stainless steel in all positions | 4 | 6 |

| | | | |
|------|---|---|----|
| 255 | Perform advanced tungsten inert gas welding on stainless steel in all positions | 4 | 6 |
| 256 | Hard face surfaces as part of metal fabrication operations | 4 | 4 |
| 1747 | Weld stainless steel pipe in all positions using the tungsten gas arc welding process | 4 | 12 |

FIELD: PHYSICAL, MATHEMATICAL AND COMPUTER STUDIES
 Subfield: Numeracy Skills
 Domain: Foundation Numeracy Skills

| Unit No. | Unit Standard Title | Level | Credit |
|----------|--|-------|--------|
| 892 | Apply knowledge of intermediate mathematics in different context | 4 | 6 |

FIELD: MANUFACTURING, ENGINEERING AND TECHNOLOGY
 Subfield: Engineering Science and Drawing
 Domain: Foundation Engineering Science and Drawing Skills

| Unit No. | Unit Standard Title | Level | Credit |
|----------|---|-------|--------|
| 896 | Apply advanced knowledge of engineering science in different contexts | 4 | 6 |
| 902 | Apply knowledge of advanced engineering drawing in different contexts | 4 | 6 |

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

| Unit No. | Unit Standard Title | Level | Credit |
|----------|--|-------|--------|
| 733 | Identify, create and select business opportunities | 3 | 5 |
| 734 | Develop a business plan as part of business startup activities | 3 | 12 |

FIELD: HEALTH SCIENCES AND SOCIAL SERVICES
Subfield: Core Health
Domain: First Aid

| Unit No. | Unit Standard Title | Level | Credit |
|-----------------|----------------------------|--------------|---------------|
| 845 | Provide Advanced First Aid | 4 | 8 |

3. Credits recognition and transfer arrangements

Credits for any version of a unit standard with 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 and the associated unit standards 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

This is the first version of this qualification.