National Vocational Certificate in Automotive Engineering (Level 1) (Automotive Electrical and Electronics)

**level of qualification:** 1

<table>
<thead>
<tr>
<th></th>
<th>Compulsory</th>
<th>Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>level 1 credits available</td>
<td>55</td>
<td>-</td>
</tr>
<tr>
<td>minimum totals required</td>
<td>55</td>
<td>-</td>
</tr>
</tbody>
</table>

**registration date:** 15 November 2007

**scheduled review date:** 2012

**body responsible for the qualification:** Project Management Unit - 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 basic automotive electrical and electronics tasks. It is awarded to people who have demonstrated the skills and knowledge required to apply safety rules and regulations; apply basic metal joining techniques; plan, organise and complete work; remove and replace electrical or electronic units; use and maintain automotive service tools and equipment; demonstrate knowledge of electrical fundamentals; apply knowledge of automobile basic components and constructions; apply fundamental communication and numeracy competencies in the workplace; and demonstrate knowledge of HIV and AIDS.

This qualification is designed to be accessible and flexible. There are no entry requirements for this qualification.

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.

This qualification leads to the National Vocational Certificate in Automotive Engineering (Level 2) (Automotive Electrical and Electronics).

2 **regulations for the qualification**

2.1 **summary of qualification requirements**

This qualification will be awarded to people who are credited with 55 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, Engineering and Technology  
**Subfield:** Automotive Engineering  
**Domain:** Automotive Electrical and Electronics

<table>
<thead>
<tr>
<th>Unit No.</th>
<th>Unit Standard Title</th>
<th>Level</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>474</td>
<td>Remove and replace electrical or electronic units</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>475</td>
<td>Use and maintain automotive service tools and equipment</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>476</td>
<td>Demonstrate knowledge of electrical fundamentals</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>477</td>
<td>Apply knowledge of automobile basic components and constructions</td>
<td>1</td>
<td>6</td>
</tr>
</tbody>
</table>

**AND**

**FIELD:** Manufacturing, Engineering and Technology  
**Subfield:** Automotive Engineering  
**Domain:** Automotive Mechanics

<table>
<thead>
<tr>
<th>Unit No.</th>
<th>Unit Standard Title</th>
<th>Level</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>Apply safety rules and regulations in an automotive mechanics workshop</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>67</td>
<td>Apply basic metal joining techniques used in automotive mechanics</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>71</td>
<td>Plan, organise and complete work in an automotive mechanics environment</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

**AND**

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

<table>
<thead>
<tr>
<th>Unit No.</th>
<th>Unit Standard Title</th>
<th>Level</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>330</td>
<td>Demonstrate knowledge of HIV and AIDS</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

**AND**

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

<table>
<thead>
<tr>
<th>Unit No.</th>
<th>Unit Standard Title</th>
<th>Level</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>332</td>
<td>Apply basic numeracy skills in English in different contexts</td>
<td>1</td>
<td>8</td>
</tr>
</tbody>
</table>

AND

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

<table>
<thead>
<tr>
<th>Unit No.</th>
<th>Unit Standard Title</th>
<th>Level</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>333</td>
<td>Apply basic reading skills in English in different contexts</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>334</td>
<td>Apply basic writing skills in English in different contexts</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>335</td>
<td>Apply basic speaking skills in English in different contexts</td>
<td>1</td>
<td>6</td>
</tr>
</tbody>
</table>

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 automotive electrical and electronics, which are encompassed in the vocational education and training sector. A copy of the national assessment arrangements is available from:

   Project Management Unit – Namibia Training Authority  
   Rand Street  
   Khomasdal  
   Namibia  
   Telephone number: 27 9550  
   Facsimile number: 27 9551
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 Automotive Engineering (Level 1) (Automotive Electrical and Electronics).

5. The national curriculum and training materials for this qualification are available from:
   Project Management Unit – Namibia Training Authority
   Rand Street
   Khomasdal
   Namibia
   Telephone number: 27 9550
   Facsimile number: 27 9551
   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.