National Vocational Certificate in Automotive Engineering (Level 2) (Automotive Electrical and Electronics)

level of qualification: 2

<table>
<thead>
<tr>
<th></th>
<th>Compulsory</th>
<th>Elective</th>
</tr>
</thead>
<tbody>
<tr>
<td>level 2 credits available</td>
<td>60</td>
<td>-</td>
</tr>
<tr>
<td>minimum totals required</td>
<td>60</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 automotive electrical and electronics tasks. It is awarded to people who have demonstrated the skills and knowledge required to communicate in an work environment; establish customer relations; apply knowledge of automotive electrical and electronic applications; carry out repairs to single electrical circuits; carry out low-voltage wiring repairs; service automotive batteries; install and repair electrical lighting system of vehicles; test and repair electrical charging system; test and repair electrical starting system; sketch and interpret low-voltage electrical circuit diagrams; and demonstrate knowledge of HIV and AIDS in the workplace.

This qualification is designed to be accessible and flexible. The entry requirement is the National Vocational Certificate in Automotive Engineering (Level 1) (Automotive Electrical and Electronics) or equivalent.

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 3) (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 60 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>478</td>
<td>Apply knowledge of automotive electrical and electronic applications</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>479</td>
<td>Carry out repairs to single electrical circuits</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>480</td>
<td>Carry out low-voltage wiring repairs</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>481</td>
<td>Service automotive batteries</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>482</td>
<td>Install and repair electrical lighting system of vehicles</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>483</td>
<td>Test and repair electrical charging system</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>484</td>
<td>Test and repair electrical starting system</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>485</td>
<td>Sketch and interpret low-voltage electrical circuit diagrams</td>
<td>2</td>
<td>9</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>74</td>
<td>Communicate in an automotive mechanic work environment</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>89</td>
<td>Establish customer relations in an automotive mechanic environment</td>
<td>2</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>331</td>
<td>Demonstrate knowledge of HIV and AIDS in the workplace</td>
<td>2</td>
<td>4</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
   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 of programs 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 2) (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.