

<b>National Vocational Certificate in Farm Machinery and Infrastructure (Level 2)</b>
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**Level of qualification: 2**

	<b>Compulsory</b>	<b>Elective</b>
<b>Level 2 credits available</b>	<b>62</b>	<b>60</b>
<b>Level 1 credits available</b>	<b>39</b>	<b>None</b>
<b>Minimum totals required</b>	<b>101</b>	<b>19</b>

**Registration date: 25 November 2015**

**Scheduled review date: 2020**

**Body responsible for the qualification: Namibia Training Authority - NTA**

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

## **1 PURPOSE**

This qualification recognises people who have the competencies required for performing farm machinery and infrastructure tasks. It is awarded to people who have demonstrated the skills and knowledge required to work effectively in the agriculture industry to use, repair and maintain hand, power farm tools, farm vehicles, tractors, engines, simple farm machinery, water infrastructure, pumps on the farm, farm fences, crush pens and kraals, farm roads, farm buildings, provide water for farming operations, construct fences, crush pens and kraals, conduct basic arc welding and repair of metal structures and blacksmithing techniques, maintain housing for livestock, demonstrate understanding of basic environmental principles in agriculture, demonstrate introductory knowledge of soil, water, nutrient and plant interactions and soil and water conservation in agriculture and appropriate relevant technology, and apply basic first aid, HIV and AIDS, numeracy, computer, financial literacy, entrepreneurship and English skills while interacting with others in an agricultural workplace environment. It also requires electives with a minimum total of 19 credits.

The entry requirements for this qualification are basic communication skills in the English language and numeracy.

This qualification leads to the National Vocational Certificate in Farm Machinery and infrastructure (Level 3)

## **2 REGULATIONS FOR THE QUALIFICATION**

### **2.1 Summary of qualification requirements**

This qualification will be awarded to people who are credited with a minimum of 120 credits and have met the requirements of both the compulsory and elective sections.

### **2.2 Detailed qualification requirements**

#### **Compulsory**

*All the unit standards listed below are required.*

FIELD: Agriculture and Nature Conservation  
 Subfield: Machinery and Equipment  
 Domain: Repairs and maintenance

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1384	Carry out basic repair and maintenance of farm vehicles, tractors, and stationary engines	2	4
Unit ID:1385	Carry out basic repair and maintenance of simple farm machinery	2	3
Unit ID: 1387	Conduct basic arc welding and repair of metal structures	2	3
Unit ID: 1388	Conduct blacksmithing techniques	2	2

FIELD: Agriculture and Nature Conservation  
 Subfield: Machinery and Equipment  
 Domain: Operate machinery, Tools and Equipment

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1378	Operate farm vehicles, tractors and stationary engines	2	4
Unit ID: 1379	Operate simple farm machinery	2	2
Unit ID: 1381	Use and maintain hand and power farm tools	2	2

FIELD: Agriculture and Nature Conservation  
 Subfield: Infrastructure  
 Domain: Roads, Kraals and fences

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1340	Construct fences, crush pens and kraals	2	4
Unit ID: 1341	Maintain farm fences, crush pens and kraals	2	3
Unit ID:1342	Maintain farm roads	2	2

FIELD: Agriculture and Nature Conservation  
 Subfield: Infrastructure  
 Domain: Buildings and Fixtures

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1336	Carry out basic repair and maintenance of farm buildings	2	4

FIELD: Agriculture and Nature Conservation  
 Subfield: Infrastructure  
 Domain: Water supplies

Unit No.	Unit Standard Title	Level	Credit
Unit ID:1345	Carry out basic repair and maintenance of water infrastructure and pumps on the farm	2	5
Unit ID: 1346	Provide water for farming operations	2	2

FIELD: Agriculture and Nature Conservation  
 Subfield: Livestock  
 Domain: Animal Husbandry

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1358	Maintain housing for livestock	2	2

FIELD: Agriculture and Nature Conservation  
 Subfield: Natural Resources Management  
 Domain: Environmental Literacy

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1393	Demonstrate an understanding of basic environmental principles in agriculture	2	4

FIELD: Agriculture and Nature Conservation  
 Subfield: Agronomy and Horticulture  
 Domain: Plant Husbandry

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1308	Demonstrate introductory knowledge of soil, water, nutrient and plant interactions	2	2
Unit ID: 1309	Demonstrate knowledge of crop agriculture in Namibia	2	2
Unit ID: 1310	Demonstrate knowledge of soil and water conservation and appropriate relevant technology	2	2

FIELD: Agriculture and Nature Conservation  
 Subfield: Farm management  
 Domain: Human Resources management

Unit No.	Unit Standard Title	Level	Credit
UNIT ID: 1330	Use workplace English in agricultural operations	2	2
UNIT ID: 1331	Work effectively in the agricultural industry	2	4

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

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1153	Apply basic numeracy skills in a workplace environment	1	5

FIELD: Agriculture and Nature Conservation  
 Subfield: Farm Management  
 Domain: Farm Business

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1326	Apply basic financial literacy skills for agribusiness	2	4

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

Unit No.	Unit Standard Title	Level	Credit
Unit ID 1158	Apply basic entrepreneurship skills	1	5

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

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 843	Provide Basic First Aid	1	3

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

Unit No.	Unit Standard Title	Level	Credit
Unit ID 1155	Demonstrate basic awareness of HIV and AIDS	1	6

Field: Physical, Mathematical and Computer Studies  
 Subfield: Information Communication Technology  
 Domain: Computing Fundamentals

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1156	Apply fundamental computer literacy skills	1	8

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

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1157	Demonstrate basic knowledge of workplace health and safety	1	7

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

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1151	Interact with others in a workplace environment	1	5

### Electives

*A minimum of 19 credits is required from the following unit standards.*

FIELD: Agriculture and Nature Conservation  
 Subfield: Machinery and Equipment  
 Domain: Repairs and maintenance

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1386	Carry out maintenance of simple irrigation systems	2	3

FIELD: Agriculture and Nature Conservation  
 Subfield: Machinery and Equipment  
 Domain: Operate Machinery, Tools and Equipment

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1380	Operate simple irrigation systems	2	3

FIELD: Agriculture and Nature Conservation  
 Subfield: Infrastructure  
 Domain: Buildings and Fixtures

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1337	Demonstrate an understanding of energy sources used on a farm	2	2

FIELD: Agriculture and Nature Conservation  
 Subfield: Livestock  
 Domain: Draught Animals

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1369	Make harnesses for draught animals	2	5
Unit ID: 1370	Use draught animals	2	2

FIELD: Agriculture and Nature Conservation  
 Subfield: Livestock  
 Domain: Animal Husbandry

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1348	Care for support animals	2	2
Unit ID: 1357	Handle farm animals	2	3

FIELD: Agriculture and Nature Conservation  
 Subfield: Agronomy and Horticulture  
 Domain: Plant Husbandry

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1305	Apply pest, disease, disorder and weed management measures in sustainable, ecological and organic crop production	2	4
Unit ID: 1306	Apply pest, disease, disorder and weed treatments	2	4
Unit ID: 1307	Apply soil sampling techniques and soil fertility and conditioning amendments and practices	2	2
Unit ID: 1311	Demonstrate understanding of sustainable, ecological and organic agriculture	2	1
Unit ID: 1314	Report pests, diseases, disorders and weeds in crops	2	3

FIELD: Agriculture and Nature Conservation  
 Subfield: Agronomy and Horticulture  
 Domain: Agronomic Crops

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1293	Establish field crops	2	4
Unit ID: 1294	Establish field crops in sustainable, ecological and organic agriculture	2	4
Unit ID: 1295	Harvest field crops	2	2
Unit ID: 1296	Produce fodder crops	2	5

FIELD: Agriculture and Nature Conservation  
 Subfield: Agronomy and Horticulture  
 Domain: Horticulture

Unit No.	Unit Standard Title	Level	Credit
Unit ID: 1299	Establish vegetable crops	2	4
Unit ID: 1300	Establish vegetable crops in sustainable, ecological and organic agriculture	2	4
Unit ID: 1301	Harvest fruit and vegetable crops	2	3

### 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.

- 4.1 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 agriculture, 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: 061 207 8550

Facsimile number: 061 207 8551

Email [info@nta.com.na](mailto:info@nta.com.na)

- 4.2 Providers of this qualification and the associated unit standards must be accredited.

## **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.