

National Vocational Certificate in Farm Machinery and Infrastructure (Level 3)

Level of qualification: 3

	Compulsory	Elective
Level 3 credits available	50	52
Level 2 credits available	none	44
Minimum totals required	50	30

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 agricultural tasks. It is awarded to people who have demonstrated the skills and knowledge required to maintain workshop equipment, operate, repair & maintain complex farm machinery, equipment, fabricate metal structures using arc and oxy-acetylene welding, coordinate construction, repair & maintain fences, crush pens and kraals, farm roads and firebreaks, farm buildings, coordinate soil and crop fertility amendments and practices, control pests, diseases, disorders and weeds, prevent and respond to wildfire, maintain agricultural records, demonstrate an understanding of farm enterprise planning and use workplace English in coordination of agricultural production. It also requires electives with a minimum total of 30 credits.

The entry requirement is Certificate in Farm Machinery and Infrastructure, level 2.

This qualification leads to the National Vocational Certificate in Agriculture (Level 4).

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 80 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	Credits
Unit ID: 1390	Fabricate metal structures using arc and oxy-	3	4

	acetylene welding		
Unit ID: 1391	Maintain workshop equipment	3	2
Unit ID: 1392	Carry out repairs and maintenance of complex farm machinery	3	4

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1382	Operate and maintain complex farm machinery and equipment	3	5

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1343	Coordinate construction, repair and maintenance tasks for farm fences, crush pens and kraals	3	5
Unit ID: 1344	Coordinate construction and maintenance tasks for farm roads and firebreaks	3	4

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1338	Coordinate construction and maintenance tasks for farm buildings	3	4

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1315	Coordinate application of soil and crop fertility amendments and practices	3	4

FIELD: Agriculture and Nature Conservation
 Subfield: Farm Management
 Domain: Farm Production Planning

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1329	Demonstrate knowledge of the livestock industry in Namibia	3	3

FIELD: Agriculture and Nature Conservation
 Subfield: Farm Management
 Domain: Record Keeping

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1335	Maintain agricultural records	3	4

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1332	Coordinate workforce deployment in agriculture	3	4
Unit ID: 1333	Use workplace English in agricultural production	3	2

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1328	Demonstrate an understanding of farm enterprise planning	3	5

Electives

A minimum of 30 credits is required from the following unit standards.

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1383	Operate automated irrigation systems	3	4

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1389	Carry out repair and maintenance of automated irrigation systems	3	4

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1339	Carry out repairs and maintenance of basic energy structures on the farm	3	2

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1371	Select and train draught animals	3	2

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1347	Repair wind, solar and diesel pumps	3	5

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

Unit No.	Unit Standard Title	Level	Credits
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: 1317	Coordinate pest, disease, disorder and weed control tasks in conventional crop production	3	4
Unit ID: 1318	Coordinate pest, disease, disorder and weed management tasks in sustainable, ecological and organic crop production	3	4
Unit ID: 1316	Coordinate crop production tasks	3	4
Unit ID: 1319	Coordinate sustainable, ecological and organic crop production tasks	3	4
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: 1322	Demonstrate knowledge of the structure, functions and nutrition of crop plants	3	3
Unit ID: 1313	Propagate plants	2	3
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	Credits
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

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1302	Coordinate greenhouse crop production tasks	3	5
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

FIELD: Agriculture and Nature Conservation
 Subfield: Agronomy and Horticulture
 Domain: Post-Harvest Storage and Handling

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1325	Coordinate tasks for storage and handling of horticultural products	3	4

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

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1304	Coordinate tasks for irrigation of crops	3	3

FIELD: Agriculture and Nature Conservation
 Subfield: Livestock
 Domain: Dairy

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1367	Milk dairy animals	2	3

FIELD: Agriculture and Nature Conservation
 Subfield: Natural Resources Management
 Domain: Farm Ecosystem Management

Unit No.	Unit Standard Title	Level	Credits
Unit ID: 1394	Prevent and respond to wildfire	3	4

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

- 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.