|  |
| --- |
| **National Vocational Certificate in Crop and Horticulture Production (Level 3)**  |

**Level of qualification: 3**

|  |  |  |
| --- | --- | --- |
|  | **Compulsory** | **Elective** |
| **Level 4 credits available** | **7** | **None** |
| **Level 3 credits available**  | **61** | **34** |
| **Level 2 credits available**  | **None** |  |
| **Level 1 credits available**  | **None** |  |
| **Minimum totals required** | **63** | **22** |

**Registration date:**

**Scheduled review date:**

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

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

# 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 work effectively in the agriculture industry, and amongst others demonstrate knowledge of crop physiology, carry out soil and crop fertility amendments and practices, compost production and use, seed production and storage, horticultural storage, handling and value addition, coordinate agricultural workforce, maintain farm records, sell produce; operate equipment, machinery and irrigation systems; and use workplace English in coordination of agricultural production. It also requires a minimum total of 90 credits combined from the compulsory and elective unit standards.

The entry requirement is the National Vocational Certificate in Horticulture and Crop Husbandry Level 2.

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

# Regulations for the qualification

Summary of qualification requirements

This qualification will be awarded to people who are credited with a minimum of 85 credits and have met the requirements of both the compulsory (63 credits) and elective (22 credits) sections.

Detailed qualification requirements

**Com**p**ulsory**

FIELD: Agriculture and Nature Conservation

Subfield: Agronomy and Horticulture

Domain: Plant Husbandry

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: 1315  | Carry out soil and crop fertility amendments and practices | 3 | 4 |
| Unit ID: 1321 | Execute seed production and processing operations | 3 | 4 |
| Unit ID: 1322  | Demonstrate knowledge of crop physiology  | 3 | 3 |
| Unit ID: CA1 | Apply conservation agriculture practices and technologies  | 3 | 4 |
| Unit ID: 1317 | Assess pest, disease, disorder and weed control tasks in crop production | 3 | 4 |

FIELD: Agriculture and Nature Conservation

Subfield: Agronomy and Horticulture

Domain: Horticulture

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: 1302 | Coordinate greenhouse crop production tasks | 3 | 5 |
| Unit ID: 1303 | Execute fruit crop production tasks | 3 | 5 |

FIELD: Agriculture and Nature Conservation

Subfield: Agronomy and Horticulture

Domain: Post-Harvest Storage and Handling

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: 1325  | Perform 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** | **Credit** |
| Unit ID: 1304 | Coordinate tasks for irrigation of crops  | 3 | 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: 1383 | Operate automated irrigation systems | 3 | 4 |
|  |  |  |  |

FIELD: Agriculture and Nature Conservation

Subfield: Agronomy and Horticulture

Domain: Farm Business

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: FMI3 | Operate Machinery, tools and Equipment  | 3 | 4 |
| Unit ID: FB1 | Prepare a basic farm enterprise plan | 4 | 7 |
| Unit ID: FB2 | Conduct Market Analysis | 3 | 3 |
| Unit ID: 1334 | Sell Farm produce  | 3 | 3 |

FIELD: Agriculture and Nature Conservation

Subfield: Farm Management

Domain: Record Keeping

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: 1335 | Maintain agricultural records | 3 | 4 |

FIELD: Agriculture and Nature Conservation

Subfield: Agronomy and Horticulture

Domain: Food Value Addition

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: FVA 01 | Add value to fruit and vegetable products | 3 | 4 |

**Electives**

 *Minimum of 22 credits must be selected*

FIELD: Agriculture and Nature Conservation

Subfield: Farm Management

Domain: Farm Production Planning

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: 1329 | Demonstrate knowledge of the livestock industry in Namibia  | 3 | 3 |

FIELD: Agriculture and Nature Conservation

Subfield: Infrastructure

Domain: Water Supplies

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: 1347 | Repair wind, solar and diesel pumps | 3 | 5 |
| Unit ID: FMI 7 | Demonstrate knowledge of rainwater harvesting, handling and storage system | 3 | 4 |

FIELD: Agriculture and Nature Conservation

Subfield: Draught Animal Power

Domain: Draught Animals

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: AgMI3-12 | Select and train draught animals | 3 | 2 |

FIELD: Agriculture and Nature Conservation

Subfield: Farm Management

Domain: Human Resources Management

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: 1332 | Coordinate workforce in agriculture | 3 | 4 |

FIELD: Agriculture and Nature Conservation

Subfield: Agronomy and Horticulture

Domain: Irrigation

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: FMI 6 | Install an irrigation system for small-scale agricultural operation | 3 | 5 |

FIELD: Agriculture and Nature Conservation

Subfield: Machinery and Equipment

Domain: Repair and maintenance

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: 1392 | Carry out repair and maintenance of complex Farm machinery | 3 | 4 |
| Unit ID: FMI 4 | Change tyres for tractors and agricultural machinery | 3 | 3 |
| Unit ID: 1389 | Carry out repair and maintenance of automated irrigation systems  | 3 | 4 |
|  |  |  |  |

FIELD: Agriculture and Nature Conservation

Subfield: Natural Resources Management

Domain: Farm Ecosystem Management

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit No.** | **Unit Standard Title** | **Level** | **Credit** |
| Unit ID: 1394 | Prevent and respond to wildfire | 3 | 4 |

# 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.

#  Special arrangements

4.1 Providers seeking registration and/or accreditation to deliver this qualification must meet the following special arrangements.

4.1.1 This qualification will be offered to trainees **either** including two periods of 3 months of **industrial/job attachment at the end of the level 2 and level 3 qualifications, where it is recommended that the attachment of one period can done at a training centre to develop a Portfolio of Evidence (POE) and be mentored on site and 3 months in the industry for further exposure**, ***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 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**

10 Rand Street

Khomasdal

Namibia

Telephone number: 061 207 8550

Facsimile number: 061 207 8551

# Transition arrangements

Non-National Qualifications Framework transition

None

National Qualifications Framework transition

This is the second version of this qualification.