

Domain

WATER SUPPLIES

Title:

Provide water for farming operations

Level: 2

Credits: 2

Purpose

This unit standard specifies the competencies required to provide safe and quality water for farming operations. It specifies competencies required to:

- Monitor water availability
- Monitor water quality
- Take corrective action in water supply.

This unit standard is intended for people who work in agriculture.

Special Notes

1. Entry information:

Prerequisites:

- None

2. This unit standard is to be delivered and assessed in the context of agricultural operations and can be assessed in conjunction with other relevant technical unit standards.

3. The evidence required to demonstrate competency in this unit must be relevant to workplace operations.

4. Assessment evidence may be collected from a real workplace or an appropriate simulated environment in which agricultural operations are carried out.

5. All inspection, operation and maintenance procedures associated with the use water shall comply with workplace guidelines and instructions.

6. Glossary of terms

- '*Water supplies*' may include but are not limited to rivers, dams, ponds, tanks, troughs, boreholes, wells, town or mains water, and recycled water.
- '*Workplace guidelines*' may include but are not limited to work notes, plans, product labels, manufacturer's specifications, operator's manuals, safety plans, fire control, waste disposal, recycling, re-use guidelines and supervisors oral or written instructions.
- '*Safety requirements*' may include but are not limited to safe use of hand tools, power tools and equipment, handling livestock, hazard and risk control, manual handling, outdoor work and the use of personal protective equipment.
- '*Personal Protective Equipment (PPE)*' may include but is not limited to boots, overalls, gloves, protective eyewear and sun protection.

7. Regulations and legislation relevant to this unit standard include the following:
- Labour Act No No. 11, 2007
 - Animal Health Act 2011
 - Animal Protection Act of 1962
 - Regulations relating to the Health and Safety of employees at work, 1997
 - National Agricultural Policy , 1995
 - National Drought Policy , 1997
 - Environmental Management Act-No: 7 of 2007
 - Standards Act, 2005, Standards Regulations: Standards Act, 2005 and relevant Namibian Standards as established

and all subsequent amendments to any of the above.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority on www.namqa.org.na and the Namibia Training Authority on www.nta.com.na.

Elements and Performance Criteria

Element 1. Monitor water availability

Range

Components of water supply systems may include but are not limited to pumps, wind pumps and bores, pipes, troughs, air bleeders in long lines, line junctions or connections, and stone areas around troughs.

Performance Criteria

- 1.1 Safety requirements are followed in accordance with safety plans and policies.
- 1.2 High and low water levels are recognised and reported in accordance with workplace procedures.
- 1.3 Estimates of water requirements are established in accordance with workplace procedures.
- 1.4 Components of water supply systems are checked for wear, leaks, deterioration or malfunctions in accordance with workplace procedures.
- 1.5 Information on water supplies is recorded and reported in accordance with workplace procedures.

Element 2. Monitor water quality

Range

Water quality checks may include but are not limited to visual checks.

Performance Criteria

- 2.1 Water supplies are checked for water quality and inspected for signs of contamination or deterioration and low or interrupted supply according to workplace procedures and guidelines.
- 2.2 Water supplies are checked according to workplace guidelines
- 2.3 Information on water quality is recorded and reported in accordance with workplace procedures and guidelines.

Element 3. Take corrective action in water supply

Range

Water delivery infrastructure/equipment may include but is not limited to water troughs, pipes, gravity fed delivery, pumps and wind pumps.

Performance Criteria

- 3.1 Water delivery equipment is operated in accordance with manufacturer's specifications and workplace procedures.
- 3.2 Outflow is checked to ensure water delivery equipment is operating correctly in accordance with workplace procedures.
- 3.3 Water delivery equipment is shut down as required in accordance with workplace procedures.
- 3.4 Activities and water delivery equipment function to do with supply, blockage, water quality issues are recorded and reported in accordance with workplace procedures.
- 3.5 Equipment, worksite, tools and materials are cleaned, returned to operating order and stored according to safety and workplace procedures.

Registration Data

Subfield:	Infrastructure
Date first registered:	25 November 2015
Date this version registered:	25 November 2015
Anticipated review:	2020
Body responsible for review:	Namibia Training Authority