



Australian Government

AHCLSK360 Service and repair bores and windmills

Release: 1

AHCLSK360 Service and repair bores and windmills

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Release 11.0.

Application

This unit of competency describes the skills and knowledge required to service and repair bores and windmills. This includes activities such as replacing parts, checking equipment for wear and tear, determining lime deposits, and stripping, dismantling or reassembling bores and windmills.

The unit applies to individuals who service and repair bores and windmills under broad direction and take responsibility for their own work.

These activities carry risk of falls due to working at heights, and injury due to working with moving parts and machinery.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Livestock (LSK)

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Establish bore history and workplace repair requirements	1.1 Review workplace records and confirm bore history 1.2 Confirm workplace bore and windmill service and repair requirements with supervisor 1.3 Obtain specialist instructions and assistance as required

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
2. Prepare to carry out service and repairs	2.1 Identify hazards and risks, and implement safe working practices to manage risks 2.2 Select, check and maintain tools, equipment and materials required to perform bore and windmill service and repair 2.3 Identify faulty or unsafe tools and equipment, and separate for repair or replacement 2.4 Select, fit, use and maintain personal protective equipment (PPE) applicable to the task 2.5 Dismantle and strip windmill and bore installations according to manufacturer specifications and workplace requirements
3. Carry out service and repairs	3.1 Service and repair bores, windmills, motors and pumps according to manufacturer specifications and workplace requirements 3.2 Report complex faults and repairs and refer for specialist advice and remedial action 3.3 Retrieve lost equipment
4. Complete service and repair activities	4.1 Reassemble and test bore and windmill components for full function and flow according to manufacturer specifications and workplace requirements 4.2 Clean and maintain work site 4.3 Clean, maintain and store tools, equipment and PPE 4.4 Dispose of or recycle waste from service and repair activities according to environmental practices 4.5 Complete service and repair records according to workplace procedures 4.6 Report work activities, and faulty and unserviceable tools and equipment to supervisor

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Identify and interpret workplace documentation to identify relevant and key information about bore and windmill service and repair activities
Writing	Use clear language, accurate industry terminology and logical structure to complete service and repair records
Oral communication	- Use clear language to report work activities, and malfunctions, faults, wear or damage to tools and equipment - Respond to questions and clarify information
Numeracy	- Calculate and record routine workplace data - Use basic mathematical processes of addition, subtraction, division, multiplication, percentages, decimal points and ratios

Unit Mapping Information

Code and title current release	Code and title previous release	Comments	Equivalence status
AHCLSK360 Service and repair bores and windmills	AHCLSK321 Service and repair bores and windmills	Minor changes to application Minor changes to elements and performance criteria Foundation skills added Assessment requirements updated	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCLSK360 Service and repair bores and windmills

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has serviced and repaired bores and windmills on at least one occasion, and has:

- applied relevant workplace health and safety and environment and biosecurity legislation, regulations and workplace procedures
- recognised and reported workplace health and safety hazards and used safe work practices
- applied basic diagnostic techniques
- recognised faults and deterioration of components and carried out repairs to bore, mill heads and pumps to ensure the full function and flow of water supplies
- selected and matched tools and equipment with work requirements
- read and interpreted workplace policy, maintenance plans, manufacturer specifications and Safety Data Sheets (SDSs)
- effectively communicated with contractors and supervisor, and recorded and reported maintenance details and outcomes
- calculated volumes, and measured speed, flow rates and distance
- maintained all components of bores and windmills
- carried out testing procedures to determine correct operation
- referred to bore histories for troubleshooting.

Knowledge Evidence

An individual must be able to demonstrate knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- workplace requirements applicable to health and safety in the workplace for servicing and repairing bores and windmills, including appropriate use of personal protective equipment (PPE)
- environment and biosecurity legislation and regulations and workplace practices relevant to servicing and repairing bores and windmills

- principles and practices for servicing and repairing bores and windmills, including:
 - construction of bores and windmills and maintenance requirements
 - diesel engine components, maintenance requirements and repair procedures
 - working principles of diesel engines
 - drive systems and components
 - types and uses of lubricants and other servicing materials
 - servicing characteristics of bores and windmills
 - types, characteristics, uses and limitations of hand and power tools
 - basic diagnostic processes and techniques.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - work instructions and workplace procedures applicable to servicing and repairing bores and windmills
 - tools, equipment and materials applicable to servicing and repairing bores and windmills
 - PPE applicable to servicing and repairing bores and windmills
- specifications:
 - workplace requirements applicable to health and safety in the workplace for servicing and repairing bores and windmills
 - environment and biosecurity legislation and regulations and workplace practices applicable to servicing and repairing bores and windmills
 - manufacturer specifications for bores and windmills
- relationships:
 - contractors and supervisor
- time frames:
 - according to job requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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