



Australian Government

AHCLSK321 Service and repair bores and windmills

Release: 1

AHCLSK321 Service and repair bores and windmills

Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

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, stripping, dismantling or reassembling bores and windmills.

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

All work must be carried out to comply with workplace procedures, work health and safety legislation and codes of practice and manufacturer's specifications

This unit applies to individuals who work under broad direction and take responsibility for own work including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources and complete routine activities.

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

Pre-requisite Unit

Nil.

Unit Sector

Livestock (LSK)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Establish bore history and enterprise policy	1.1 Review enterprise records and confirm bore history 1.2 Confirm enterprise bore and windmill service and repair policy with supervisor

Element	Performance criteria
	1.3 Obtain any required specialist instructions and assistance as appropriate
2. Prepare to carry out service and repairs	2.1 Select and inspect tools, equipment and materials appropriate to job requirements 2.2 Carry out dismantling and stripping of windmill and bore installations appropriately 2.3 Identify hazards in the workplace, assess and control risks appropriately
3. Carry out service and repairs	3.1 Select, use and maintain personal protective equipment appropriately 3.2 Carry out service and repairs to bores, windmills, motors and pumps appropriately 3.3 Report complex faults and repairs and refer for specialist advice and remedial action appropriately 3.4 Retrieve lost equipment appropriately
4. Complete service and repair activities	4.1 Reassemble and test bore and windmill components appropriately for full function and flow 4.2 Clean work site, tools and equipment, return to operating order and store appropriately 4.3 Collect, treat, dispose of or recycle waste from service and repair activities appropriately 4.4 Document information appropriately

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCLSK321A Service and repair bores and windmills

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCLSK321 Service and repair bores and windmills

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- identify hazards, assess risks and implement safe work procedures
- apply basic diagnostic techniques
- recognise faults and deterioration of components and carry out repairs to bore, mill heads and pumps to ensure the full function and flow of water supplies
- select and match tools and equipment with work requirements
- apply safe workplace and positive environmental procedures
- read and interpret enterprise policy, maintenance plans, manufacturer specifications and Safety Data Sheets (SDSs)
- effectively communicate with contractors and supervisor, record and report maintenance details and outcomes
- calculate volumes, and measure speed, flow rates and distance
- maintain all components of bores and windmills
- carry out testing procedures to determine correct operation
- refer to bore histories for troubleshooting
- apply relevant work health and safety requirements

Knowledge Evidence

The candidate must demonstrate knowledge of:

- 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
- environmental codes of practice with regard to maintenance activities
- work health and safety legislative requirements

Assessment Conditions

Competency is to be assessed in the work place or workplace and simulated environments that accurately reflect performance in a real workplace setting.

Assessors must satisfy current standards for RTOs.

Links

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