



Australian Government

AURKTA010 Inspect, service and repair hay cutting, raking and baling equipment

Release: 1

AURKTA010 Inspect, service and repair hay cutting, raking and baling equipment

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to inspect, service and repair faults in hay cutting, raking and baling equipment. It involves preparing for the task, inspecting the equipment to determine the service and repair requirements, carrying out the service and repair, performing post-repair testing, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The hay cutting, raking and baling equipment is that of agricultural machinery and refers to specialised equipment involved in baling hay. It does not cover generalised equipment and systems that form the platform or the towing vehicle. This unit does not apply to the use of headers for grain, sugar cane, cotton, rice, vegetable and fruit crops.

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

Competency Field

Mechanical - Mobile Plant

Unit Sector

Technical

Elements and Performance Criteria

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Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.

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1. Prepare to inspect hay cutting, raking and baling equipment	1.1 Job requirements are determined from workplace instructions 1.2 Inspection procedures and information for hay cutting, raking and baling equipment are sourced and interpreted 1.3 Options are analysed and those most appropriate to the circumstances are selected 1.4 Hazards associated with the work are identified and risks are managed 1.5 Tools, equipment and materials are selected and checked for serviceability
2. Conduct inspection and analyse results	2.1 Inspection is carried out according to manufacturer specifications, workplace procedures, and safety and environmental requirements 2.2 Inspection results are compared with manufacturer specifications 2.3 Inspection findings are reported according to workplace procedures, and include recommendations for necessary service, repairs or adjustments
3. Service and repair equipment	3.1 Service and repair procedures and information are sourced and interpreted 3.2 Service and repair tools, equipment and materials are selected and checked 3.3 Service and adjustments are carried out according to manufacturer specifications, workplace procedures, and safety and environmental requirements 3.4 Repairs and component replacements and adjustments are carried out according to manufacturer specifications, workplace procedures, and safety and environmental requirements 3.5 Equipment and systems are test run and adjustments are carried out as required
4. Prepare equipment for operation	4.1 Variable operating parameters are identified from manufacturer specifications and analysis of proposed work environment and conditions 4.2 Equipment variables, including management system settings, controls and monitoring systems, are established and prepared for proposed operations 4.3 Equipment and systems are test run and final adjustments are made

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	4.4 Post-repair testing is carried out according to workplace procedures
5. Complete work processes	5.1 Final inspection is made to ensure work is to workplace expectations and equipment is presented ready for use, including ensuring that protective guards, safety features and cowlings are in place 5.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 5.3 Tools and equipment are checked and stored according to workplace procedures 5.4 Workplace documentation is processed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	locate appropriate sources of information efficiently.
Reading skills to:	interpret information from manufacturer and workshop literature when seeking equipment specifications and procedures.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting diagnostic findings, making repair recommendations, and recording parts and material used.
Oral communication skills to:	clarify workplace instructions and determine job requirements.
Numeracy skills to:	- measure equipment components and use basic mathematical operations, including addition and subtraction, to calculate distances, tolerances and deviations from manufacturer specifications - understand measuring and test equipment divisions.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.

Skills	Description
Technology skills to:	• use diagnostic equipment to interrogate electronic management system.

Range of Conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Hay cutting, raking and baling equipment</i> must include:	• equipment for cutting and raking hay in preparation for baling • equipment that may be for baling round bales, or small and large rectangular bales.
<i>Safety and environmental requirements</i> must include:	• work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: • isolating and stabilising equipment and machines • working with rotating shafts • environmental requirements, including procedures for waste management, machine hygiene, dust and clean-up management.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURKTA010 Inspect, service and repair hay cutting, raking and baling equipment

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- inspect, service and repair:
 - hay cutting equipment
 - hay raking equipment
 - hay baling equipment, including one of the following:
 - round baler
 - small or large rectangular baler.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting, servicing and repairing hay cutting, raking and baling equipment, including procedures for:
 - isolating and stabilising equipment and machines
 - working with rotating shafts
- environmental requirements, including procedures for waste management, machine hygiene, dust and clean-up management
- operating principles of equipment, including:
 - hay cutting equipment
 - hay raking equipment
 - hay baling equipment, including for round bales or small and large rectangular bales
- application, purpose and operation of hay cutting, raking and baling equipment, including:
 - hay cutting equipment:

- disc mowers
- sickle bar mowers
- hay raking equipment:
 - side delivery rakes
 - wheel rakes
 - tedders
- round and rectangular hay baling equipment, including:
 - electronic monitoring control
 - pick-up and feed system
 - packing system
 - compression system
 - knotting system
 - ejection system
- inspection procedures for hay cutting, raking and baling equipment, including:
 - component wear analysis
 - system operation analysis
 - electronic fault code interrogation
- service and repair procedures for hay cutting, raking and baling equipment, including removing, replacing, repairing and adjusting hay cutting, raking and baling equipment components
- post-repair testing procedures for hay cutting, raking and baling equipment, including:
 - variable operating parameters
 - impact of environmental factors.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the hay cutting, raking and baling equipment that they have serviced and repaired, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive repair workplace or simulated workplace
- workplace instructions
- manufacturer hay cutting, raking and baling equipment specifications

- operational hay cutting, raking and baling equipment specified in the performance evidence and requiring service and repair
- diagnostic equipment for hay cutting, raking and baling equipment
- tools, equipment and materials appropriate for inspecting, servicing, repairing and adjusting hay cutting, raking and baling equipment.

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