



Australian Government

AURPTA104 Service and repair drum cutting systems

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Application

This unit describes the skills and knowledge required to service and repair faults in the drum cutting systems of outdoor power equipment according to manufacturer specifications. The unit involves preparing for the task, determining the service and repair requirements, carrying out the service and repair, performing post-repair testing, and completing workplace processes and documentation.

The unit applies to those who work in the outdoor power equipment service and repair industry. The drum cutting systems include push type, electric or internal combustion powered systems, and include reel mowers or gang mowers. This unit relates to the service and repair of the drum cutting system only and not the driving engine or motor.

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

Unit Sector

Outdoor Power Equipment Technical

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to service and repair drum cutting system	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for service activity 1.3 Identify and manage hazards associated with the tasks 1.4 Select tools, equipment and materials and check for serviceability

ELEMENTS	PERFORMANCE CRITERIA
2. Determine service and repair requirements of drum cutting system	2.1 Inspect and test system according to manufacturer specifications, workplace procedures, and safety requirements 2.2 Identify faults through inspection and identify causes 2.3 Report inspection findings and test results according to workplace procedures, and include recommendations for necessary service, repair or adjustment 2.4 Obtain authorisation to proceed with service and repair in line with recommendations
3. Carry out service and repair activities	3.1 Select and check tools, equipment and materials required to conduct service and repair 3.2 Remove and inspect components for serviceability according to manufacturer specifications, workplace procedures, and safety and environmental requirements 3.3 Fit and adjust reusable, repaired and replacement components according to manufacturer specifications and workplace procedures
4. Check drum cutting system for normal operation	4.1 Operate system and compare to manufacturer specifications 4.2 Make adjustments as required and re-test drum cutting system
5. Complete work processes	5.1 Conduct final inspection according to workplace procedures and confirm equipment is ready for use 5.2 Clear work area and dispose of or recycle materials according to workplace procedures 5.3 Complete documentation according to workplace procedures

Foundation Skills

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

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently.
Numeracy	Calculates deviations and tolerances from manufacturer specifications using basic mathematical skills.
Reading	Interprets information from manufacturer and workshop literature when seeking drum cutting system specifications and procedures.
Planning and organising	Plans own work requirements

SKILL	DESCRIPTION
	• Prioritises actions to achieve required outcomes • Ensures tasks are completed within workplace timeframes.
Technology	• Uses specialised equipment.

Unit Mapping Information

Supersedes and is equivalent to AURPTA004 Service and repair drum cutting systems.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for AURPTA104 Service and repair drum cutting systems

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- service and repair two different drum cutting systems, including at least two of the following systems:
 - push type single reel
 - motorised single reel
 - gang (multi-reel)
- service and repair all of the following in the course of the above:
 - cutting blades and attachments
 - blade mounting
 - drive system
 - wheels.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to service and repair drum cutting systems, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to service and repair drum cutting systems, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment

- identification, tagging and isolation of faulty equipment
- disposal of excess materials
- recycling procedures
- work health and safety (WHS) requirements relating to servicing and repairing drum cutting systems, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - working with electrical systems
 - working with drum cutting systems
 - checking protective guards, cowlings and safety features
- environmental requirements, including procedures for trapping, storing and disposing of lubricating oils released from drum cutting systems
- application, and key features of drum cutting systems, including push type, electric and internal combustion powered systems, including:
 - reel mowers
 - gang (multi-reel) mowers
 - types of lubricants, and their application and methods of lubrication
- service and repair procedures for drum cutting systems, including:
 - grinding, adjusting and aligning cutting blades
 - aligning cutter housing
 - adjusting cutting blade mounting and attachments
 - analysing wear of drive system
- post-repair testing procedures for drum cutting systems, including requirements for operating system through full operating range.

Assessment Conditions

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 drum cutting systems 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:

- outdoor power equipment repair workplace or simulated workplace
- workplace instructions
- manufacturer specifications for drum cutting systems
- area and equipment, including PPE, required to safely test drum cutting systems
- two different drum cutting systems as specified in the performance evidence requiring service and repair

- tools, equipment and materials appropriate for inspecting, servicing and repairing drum cutting systems, including specialised blade grinding equipment.

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

Links

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