



Australian Government

AURPTA103 Service and repair rotary cutting systems

Release: 1

AURPTA103 Service and repair rotary cutting systems

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 rotary 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 working in the outdoor power equipment service and repair industry. The rotary cutting systems include electric or internal combustion engine driven rotary mowers, lawn edgers, brush cutters, chippers or mulchers. This unit is for the service and repair of the rotary cutting system only and not the driving engine or motor.

No licensing, legislative, regulatory 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 rotary cutting system	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for service and repair activity 1.3 Identify hazards and manage risks according to workplace procedures 1.4 Select tools, equipment and materials and check for serviceability
2. Determine service and repair requirements of	2.1 Identify faults through inspection and identify causes 2.2 Report inspection findings and test results according to

ELEMENTS	PERFORMANCE CRITERIA
rotary cutting system	workplace procedures, and include recommendations for necessary service, repair or adjustment 2.3 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 rotary cutting system for normal operation	4.1 Operate system and compare to manufacturer specifications 4.2 Adjust and re-test rotary cutting system as required
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 and are not explicit in the performance criteria.

SKILL	DESCRIPTION
Learning	Locates required sources of information efficiently.
Numeracy	- Measures rotary cutting system components and uses basic mathematical operations, including addition and subtraction - Calculates deviations and tolerances from manufacturer specifications.
Oral communication	- Clarifies instructions - Obtains information from customers and supervisors.
Reading	Interprets information from manufacturer and workshop literature when seeking rotary cutting system service and repair procedures and specifications.

SKILL	DESCRIPTION
Planning and organising	- Plans own work requirements - Prioritises actions to achieve required outcomes - Ensures tasks are completed within workplace timeframes.
Technology	Uses precision measuring equipment

Unit Mapping Information

Supersedes and is equivalent to AURPTA003 Service and repair rotary 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 AURPTA103 Service and repair rotary 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 at least three of the following rotary cutting systems:
 - rotary mower
 - lawn edger
 - brush cutter
 - chipper
 - mulcher.

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 rotary cutting systems:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to service and repair rotary 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) relating to servicing and repairing rotary cutting systems, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - working with electrical systems
 - working with rotating cutting system
 - checking protective guards, cowlings and safety features
- environmental requirements, including procedures for trapping, storing and disposing of oils and fluids released from rotary cutting systems
- types of lubricants, and their application and methods of lubrication
- application, and key features of rotary cutting systems, including the electric or internal combustion engine driven systems specified in the performance evidence
- inspection, servicing and adjustment procedures for rotary cutting systems, including:
 - cutting blades and attachments
 - cutting deck housing
 - blade mounting
 - wheels
 - drive systems
- repair procedures for rotary cutting systems, including removal, replacement and adjustment procedures for components, including:
 - cutting blades and attachments
 - cutting deck housing
 - blade mounting
 - wheels
 - drive systems
- post-repair testing procedures for rotary cutting systems, including 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 rotary 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 rotary cutting systems

- area and equipment, including PPE, required to safely test rotary cutting systems
- three different rotary cutting systems requiring service and repair
- tools, equipment and materials appropriate for inspecting, servicing and repairing rotary cutting systems.

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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