



Australian Government

AURPTA003 Service and repair rotary cutting systems

Release: 1

AURPTA003 Service and repair rotary cutting systems

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to service and repair faults in the rotary cutting systems of outdoor power equipment according to manufacturer specifications. It 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.

It 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.

Competency Field

Outdoor Power Equipment

Unit Sector

Technical

Elements and Performance Criteria

Elements	Performance Criteria
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.
1. Prepare to service and repair rotary cutting	1.1 Job requirements are determined from workplace instructions 1.2 <i>Service and repair procedures</i> and information are sourced and

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system	interpreted 1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools, equipment and materials are selected and checked for serviceability
2. Determine service and repair requirements of rotary cutting system	2.1 System is inspected and tested according to manufacturer specifications, workplace procedures, and <i>safety requirements</i> 2.2 Faults are identified from inspection and causes of faults are determined 2.3 Inspection findings and test results are reported according to workplace procedures, and include recommendations for necessary service, repair or adjustment 2.4 Authorisation to proceed with service and repair is obtained according to workplace procedures
3. Carry out service and repair activities	3.1 Service and repair options are analysed and those most appropriate to the circumstances are selected 3.2 Tools, equipment and materials are selected and checked 3.3 Components are removed and inspected for serviceability according to manufacturer specifications, workplace procedures, and safety and <i>environmental requirements</i> 3.4 Reusable, repaired and replacement components are fitted and adjusted according to manufacturer specifications and workplace procedures
4. Check rotary cutting system for normal operation	4.1 System is operated and compared to manufacturer specifications according to workplace procedures and safety requirements 4.2 Adjustments are made as required and rotary cutting system is re-tested
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 protective guards, cowlings and safety features 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 information efficiently.
Reading skills to:	locate information from manufacturer and workshop literature when seeking rotary cutting system service and repair procedures and specifications.
Writing skills to:	legibly and accurately fill out workplace documentation, making recommendations, recording parts and material used, and completing customer instruction reports.
Oral communication skills to:	- clarify instructions - report inspection findings and make repair recommendations.
Numeracy skills to:	measure rotary cutting system components and use basic mathematical operations, including addition and subtraction, to calculate distances, tolerances and deviations from manufacturer specifications.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Technology skills to:	use precision measuring equipment

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>Servicing and repair procedures</i> must include:	- inspecting, servicing, repairing and replacing components - lubricating system and components - testing repaired unit - documenting and reporting service and repair procedures.
<i>Safety requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, 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.
<i>Environmental requirements</i> must include:	• procedures for trapping, storing and disposing of oils and fluids released from rotary cutting systems.

Unit Mapping Information

Equivalent to AURPTA2003 Service and repair rotary cutting systems

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 AURPTA003 Service and repair rotary cutting systems

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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:

- service and repair three of the following rotary cutting systems:
 - rotary mower
 - lawn edger
 - brush cutter
 - chipper
 - mulcher.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) 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, purpose and operation 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

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 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.

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