



Australian Government

AURPTR106 Deploy and service autonomous outdoor power equipment

Release: 1

AURPTR106 Deploy and service autonomous outdoor power equipment

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 deploy and service autonomous outdoor power equipment. It involves preparing for the task, deploying autonomous outdoor power equipment, inspecting the autonomous outdoor power equipment, reporting the inspection findings, servicing and adjusting the equipment, and completing workplace processes and documentation.

The unit applies to those working in the outdoor power equipment service and repair industry. This unit does not apply to light and heavy vehicle engines.

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

Unit Sector

Outdoor Power Equipment Technical - Electrical

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 deploy autonomous outdoor power equipment	1.1 Remove packaging, inspect autonomous outdoor power equipment and determine set up requirements from manufacturer instructions 1.2 Identify hazards and manage risks associated with the deployment conditions 1.3 Set up perimeter zoning and define operating conditions for autonomous outdoor power equipment as per manufacturer instructions and workplace procedures 1.4 Set up charging station and dock autonomous outdoor power

ELEMENTS	PERFORMANCE CRITERIA
	equipment 1.5 Carry out installation of autonomous outdoor power equipment
2. Prepare to inspect and service autonomous outdoor power equipment	2.1 Determine job requirements from workplace instructions and identify required tools, equipment and materials 2.2 Source and interpret service information 2.3 Identify hazards and manage risks associated with the work according to workplace procedures 2.4 Inspect, check and select tools, equipment and materials for serviceability
3. Inspect autonomous outdoor power equipment	3.1 Inspect and test autonomous outdoor power equipment according to manufacturer specifications, workplace procedures, and safety and environmental requirements 3.2 Compare inspection results with manufacturer specifications 3.3 Report inspection findings according to workplace procedures and recommend required repairs or adjustments 3.4 Obtain authorisation to proceed according to workplace procedures
4. Service autonomous outdoor power equipment	4.1 Identify and select service options according to manufacturer maintenance schedule 4.2 Carry out service and adjustments according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems 4.3 Carry out post-service testing according to workplace procedures
5. Complete work processes	5.1 Make final inspection to ensure work is to workplace expectations and present equipment ready for use 5.2 Clean work area, dispose of waste and non-recyclable materials, and collect recyclable material 5.3 Process workplace 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
-------	-------------

SKILL	DESCRIPTION
Learning	• Locates required sources of information efficiently.
Numeracy	• Calculates voltage and current loadings using basic mathematical operations, including addition and subtraction • Interprets measuring equipment divisions.
Oral communication	• Clarifies instructions.
Reading	• Interprets information from manufacturer and workshop literature when seeking autonomous outdoor power equipment specifications and procedures for outdoor power equipment.
Problem solving	• Refers problems outside area of responsibility to required person.

Unit Mapping Information

New unit.

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 AURPTR106 Deploy and service autonomous outdoor power equipment

Modification History

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

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:

- deploy and service at least two different autonomous outdoor equipment devices from the following:
 - robotic lawn mower
 - robotic edger
 - robotic weeder.

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 deploy and service autonomous outdoor power equipment, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to deploy and service autonomous outdoor power equipment, 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 deploy and service outdoor power equipment, including procedures for working with:

- high voltage AC and DC systems
- open circuits
- environmental requirements, including procedures for trapping, storing and disposing of lubricant and fluids released from autonomous outdoor power equipment
- identification and function of autonomous outdoor power equipment components, including:
 - cutting blades
 - servo motors
 - brushless motors
 - battery systems
 - charging systems
 - perimeter definition
 - GPS control systems
 - software updates
 - user interface display
 - electrical switches
- identification and function of autonomous outdoor power equipment systems, including:
 - lubrication
 - operation function
 - operational voltage
- inspection procedures for autonomous outdoor power equipment, including:
 - oil and fluid leaks
 - cutting blades
 - software updates
 - control module functionality
- service and adjustment procedures for cordless autonomous outdoor power equipment, including:
 - minor adjustments
 - updating software
 - sharpening blades
- post-service testing procedures for autonomous outdoor power equipment, including operating equipment 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 equipment or autonomous outdoor power equipment that they have worked on, e.g. service 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
- two autonomous outdoor power equipment devices specified in the performance evidence and requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing autonomous outdoor power equipment.

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

Links

Companion Volume Implementation Guide is found on VETNet -

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