



Australian Government

AURPTR104 Inspect and service cordless electric tool skins

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 inspect and service cordless electric tool skins. It involves preparing for the task, inspecting the cordless electric tool skin, reporting the inspection findings, servicing and adjusting the cordless electric tool skin, 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 inspect and service an outdoor power equipment cordless electric tool skin	1.1 Determine job requirements from workplace instructions 1.2 Source and interpret service information 1.3 Identify hazards and manage risks associated with the work according to workplace procedures 1.4 Inspect, check and select tools, equipment and materials for serviceability
2. Inspect cordless electric tool skin	2.1 Inspect and test cordless electric tool skin according to manufacturer specifications, workplace procedures, and safety and environmental requirements 2.2 Compare inspection results with manufacturer specifications 2.3 Report inspection findings according to workplace procedures

ELEMENTS	PERFORMANCE CRITERIA
	and recommend required repairs or adjustments 2.4 Obtain authorisation to proceed according to workplace procedures
3. Service cordless electric tool skin	3.1 Select service options according to manufacturer maintenance schedule 3.2 Carry out service and adjustments according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems 3.3 Carry out post-service testing according to workplace procedures
4. Complete work processes	4.1 Make final inspection to ensure work is to workplace expectations and present equipment ready for use 4.2 Clean work area, dispose of waste and non-recyclable materials, and collect recyclable material 4.3 Complete 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
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 cordless electric tool skin service 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 AURPTR104 Inspect and service cordless electric tool skins

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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:

- inspect and service skins from at least three of the following different brushed or brushless cordless electric tools:
 - line trimmer
 - chainsaw
 - lawn mower
 - edger
 - hedger
 - blower
 - pressure washer.

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 inspect and service cordless electric tool skins, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to inspect and service cordless electric tool skins, including:
 - establishing serviceability of tools and equipment
 - documentation procedures, including:
 - recommendations for required repair or adjustment
 - 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 inspecting and servicing cordless electric tool skins, including procedures for working with:
 - high voltage DC systems
- environmental requirements, including procedures for trapping, storing and disposing of lubricant and fluids released from outdoor power equipment skins
- identification and function of cordless electric tool skin components, including:
 - cutting shears
 - cutting chains
 - cutting blades
 - reduction gearboxes
 - waste traps
 - low pressure fans
 - high pressure water pumps
 - electrical switches
 - brushes
 - brushless motors
 - wiring harnesses
- identification and function of cordless electric tool skin outdoor power equipment systems, including:
 - lubrication
 - operation function
 - operational voltage
- basic operation of electric motors within cordless electric tool skin, including:
 - brush motors
 - brushless motors
- types and applications of:
 - electric motors
 - lubricating oils and filters
- inspection procedures for cordless electric tool skins, including:
 - oil and fluid leaks
 - ancillary components, including:
 - mountings
 - chains and blades
- service and adjustment procedures for cordless electric tool skins, including:
 - minor adjustments
 - changing lubricating fluids and filters

- post-service testing procedures for cordless electric tool skins, including operating skin 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 outdoor power cordless electric tool skins that they have worked on, 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
- three different outdoor power equipment cordless electric tool skins specified in the performance evidence and requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing outdoor power equipment cordless electric tool skins.

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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