



Australian Government

Assessment Requirements for AURPTR105 Diagnose and repair 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

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:

- diagnose and repair at least three of the following brushed or brushless cordless electric tool skin types:
 - 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 diagnose and repair cordless electric tool skins, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair cordless electric tool skins, 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 inspecting and servicing outdoor power equipment engines, 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
 - battery systems
- 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
- diagnosis procedures for cordless electric tool skins, including:
 - operation switches
 - brush motors
 - brushless motors
 - fluid leaks
 - ancillary components, including:
 - mountings
 - chains and blades
- repair procedures for cordless electric tool skins, including:
 - replacement switches

- replacement control units
- brush replacement
- post-service testing procedures for outdoor power equipment engines, including operating cordless electric tool 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 engine specifications
- three different outdoor power equipment cordless electric tool skins specified in the performance evidence and requiring servicing
- tools, equipment and materials appropriate for diagnosing and repairing 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

Companion Volume Implementation Guide is found on VETNet -

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