



Australian Government

AURPTE104 Overhaul outdoor power equipment engines

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 return outdoor power equipment engines to original manufacturer tolerances and clearances. The unit involves preparing for the task, dismantling and evaluating the engine, carrying out the overhaul procedures, reassembling and testing the engine, and completing workplace processes and documentation.

The unit applies to those working in the outdoor power equipment and the engines may be two and four stroke spark ignition and four stroke compression ignition engines. The unit does not apply to light or heavy vehicle engines. This unit does not apply to light or 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 - Engines

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 dismantle outdoor power equipment engine	1.1 Identify job requirements from workplace instructions 1.2 Identify required information for overhaul activity 1.3 Analyse and select dismantling options appropriate to the circumstances 1.4 Identify hazards and environmental issues associated with overhaul activity, assess potential risks and implement control measures in line with workplace policies and procedures 1.5 Identify tools and equipment required for testing strategy and establish serviceability according to workplace procedures

ELEMENTS	PERFORMANCE CRITERIA
2. Dismantle and evaluate engine and components	2.1 Dismantle engine and relevant components in a logical sequence according to manufacturer and workplace procedures, and safety and environmental requirements, without causing unnecessary damage to components or systems 2.2 Clean components and evaluate according to workplace procedures and safety and environmental requirements 2.3 Measure components and compare with manufacturer specifications and serviceability is determined 2.4 Determine component repair method 2.5 Identify unserviceable parts and source replacement parts 2.6 Obtain authorisation to proceed according to workplace procedures
3. Carry out overhaul	3.1 Source and interpret overhaul information 3.2 Analyse overhaul options and select most appropriate to the circumstances 3.3 Select and check overhaul tools and equipment for serviceability 3.4 Machine, repair and replace components, as required, and carry out adjustments according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and without causing damage to components or systems
4. Assemble engine and components	4.1 Assemble engine according to manufacturer specifications, workplace procedures, and safety and environmental requirements 4.2 Measure tolerances and clearances against manufacturer specifications and make necessary adjustments 4.3 Complete assembly of engine within workplace timeframes and without causing damage to other components or systems 4.4 Carry out post-assembly testing according to workplace procedures and safety and environmental requirements, and rectify any problems detected as having been introduced during the assembly process
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 • Uses websites to download owner manuals, workshop literature and service bulletins.
Numeracy	• Measures engine components and uses basic mathematical operations, including addition, subtraction, multiplication and division • Calculates distances, areas, volumes, tolerances and deviations from manufacturer specifications.
Oral communication	• Clarifies instructions, reports evaluation findings and makes overhaul recommendations.
Reading	• Interprets and assesses information from manufacturer and workshop literature when seeking engine specifications and procedures.
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 • Uses specialised engine overhaul equipment.

Unit Mapping Information

Supersedes and is equivalent to AURPTE004 Overhaul outdoor power equipment engines.

Links

Companion Volume Implementation Guide is found on VETNet -

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