



**Australian Government**

**AURPTR103 Service and repair outdoor  
power equipment engine management  
systems**

**Release: 1**

# AURPTR103 Service and repair outdoor power equipment engine management systems

## 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 service and repair outdoor power equipment engine management systems (EMS) according to manufacturer specifications. The unit 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.

The unit applies to those working in the outdoor power equipment service and repair industry. The EMS include electronic fuel injection and emission systems in hand-held or wheeled equipment. EMS may include those of two and four-stroke spark ignition engines.

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

## Unit Sector

Outdoor Power Equipment Technical- Electrical and Electronic

## 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 service and repair EMS                | 1.1 Identify job requirements from workplace instructions<br>1.2 Source and interpret workplace inspection and service procedures<br>1.3 Identify and manage hazards associated with the tasks<br>1.4 Select tools and equipment and check for serviceability |
| 2. Determine service and repair requirements of EMS | 2.1 Inspect and test system according to manufacturer specifications, workplace procedures, and safety requirements   |

| <b>ELEMENTS</b>                            | <b>PERFORMANCE CRITERIA</b>   |
|--|---|
|  | <p>2.2 Identify faults through inspection and identify causes</p> <p>2.3 Report inspection findings and test results according to workplace procedures, and include recommendations for necessary service, repair or adjustment</p> <p>2.4 Obtain authorisation to proceed with service and repair in line with recommendations</p>   |
| 3. Carry out service and repair activities | <p>3.1 Select and check tools, equipment and materials required to conduct service and repair</p> <p>3.2 Remove and inspect components for serviceability according to manufacturer specifications, workplace procedures, and safety and environmental requirements</p> <p>3.3 Fit and adjust reusable, repaired and replacement components according to manufacturer specifications and workplace procedures</p> |
| 4. Check EMS for normal operation          | <p>4.1 Operate system and compare to manufacturer specifications</p> <p>4.2 Make adjustments as required and adjust and re-test rotary cutting system</p>   |
| 5. Complete work processes                 | <p>5.1 Conduct final inspection according to workplace procedures and confirm equipment is ready for use</p> <p>5.2 Clear work area and dispose of or recycle materials according to workplace procedures</p> <p>5.3 Complete documentation according to workplace procedures</p>   |

## Foundation Skills

*This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.*

| <b>SKILL</b> | <b>DESCRIPTION</b>   |
|--------------|--|
| Learning     | <ul style="list-style-type: none"> <li>Locates required sources of information efficiently.</li> </ul>   |
| Numeracy     | <ul style="list-style-type: none"> <li>Measures EMS components and uses basic mathematical operations, including addition and subtraction</li> <li>Calculates deviations and tolerances from manufacturer specifications</li> <li>Measures electrical components for comparison to manufacturer specifications.</li> </ul> |
| Reading      | <ul style="list-style-type: none"> <li>Interprets information from manufacturer and workshop literature and seeks EMS specifications and procedures.</li> </ul>  |

| <b>SKILL</b>            | <b>DESCRIPTION</b>  |
|-------------------------|---|
| Planning and organising | <ul style="list-style-type: none"><li>• Plans own work requirements</li><li>• Prioritises actions to achieve required outcomes</li><li>• Ensures tasks are completed within workplace timeframes.</li></ul> |
| Technology              | <ul style="list-style-type: none"><li>• Uses diagnostic EMS equipment.</li></ul>  |

## Unit Mapping Information

Supersedes and is equivalent to AURPTR003 Service and repair outdoor power equipment engine management systems.

## Links

Companion Volume Implementation Guide is found on VETNet -

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