



Australian Government

AURTTF001 Inspect and service petrol fuel systems

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to inspect and service petrol fuel systems. It involves preparing for the task, inspecting the fuel system for leaks, inspecting the air filter, reporting the inspection findings, servicing and adjusting the system, and completing workplace processes and documentation.

It applies to those working in the automotive service and repair industry. The petrol fuel systems include those of agricultural machinery, heavy commercial vehicles, light vehicles, marine vessels, motorcycles, mobile plant or outdoor power equipment.

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

Competency Field

Mechanical Miscellaneous

Unit Sector

Technical – Fuel Systems

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to inspect and service petrol fuel system	1.1 Job requirements are determined from workplace instructions 1.2 Servicing information is sourced and interpreted 1.3 Hazards associated with the work are identified and risks are managed

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
	1.4 Tools, equipment and materials are selected and checked for serviceability
2. Inspect petrol fuel system	2.1 Inspection is carried out according to manufacturer specifications, workplace procedures and <i>safety requirements</i> 2.2 inspection results are compared with manufacturer specifications 2.3 Inspection findings are reported according to workplace procedures, including recommendations for necessary repairs or adjustments
3. Service petrol fuel system	3.1 <i>Service</i> and adjustments are carried out according to manufacturer specifications, workplace procedures, and safety and <i>environmental requirements</i> , and without causing damage to components or systems 3.2 <i>Post-service testing</i> is carried out according to workplace procedures
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and vehicle or machinery is presented ready for use 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 4.3 Tools and equipment are checked and stored according to workplace procedures 4.4 Workplace documentation is processed 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.\

Skills	Description
Learning skills to:	<ul style="list-style-type: none"> locate appropriate sources of information efficiently.
Reading skills to:	<ul style="list-style-type: none"> interpret information from manufacturer and workshop literature when seeking service procedures and specifications relating to petrol fuel systems.
Writing skills to:	<ul style="list-style-type: none"> legibly and accurately fill out workplace documentation when reporting inspection findings, making recommendations, and recording parts and material used.

Skills	Description
Oral communication skills to:	<ul style="list-style-type: none"> clarify instructions report inspection findings and make repair recommendations.
Numeracy skills to:	<ul style="list-style-type: none"> calculate liquid volumes and service schedule intervals using basic mathematical operations, including addition and subtraction.

Range of Conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Safety requirements</i> must include:	<ul style="list-style-type: none"> work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for working with: <ul style="list-style-type: none"> stored fuel pressure flammable liquids.
<i>Service</i> must include:	<ul style="list-style-type: none"> pre- and post-inspection of all petrol fuel system components servicing air filters replacing fuel filters.
<i>Environmental requirements</i> must include:	<ul style="list-style-type: none"> procedures for: <ul style="list-style-type: none"> trapping, storing and disposing of flammable liquids released from fuel systems disposing of filters.
<i>Post-service testing</i> must include:	<ul style="list-style-type: none"> starting up and running system to full operation testing system for leaks and correct operation.

Unit Mapping Information

Equivalent to AURTTF2001 Service petrol fuel systems

Links

Companion Volume implementation guides are found in VETNet -

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