

# **AUMFTE001 Conduct engine hot tests**

Release: 1

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#### **Modification History**

Release	Comment	
Release 1	Unit updated to reflect the new standards for Training Packages	
	Replaces AUMFTE3001 Conduct engine hot test	

# **Application**

This unit describes the performance outcomes required to assess the status of an engine for operating inconsistencies or faults.

It applies to those in an automotive manufacturing environment and involves the application of skills and knowledge at a specialist level.

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

### **Competency Field**

Manufacturing - Passenger Vehicle

#### **Unit Sector**

Technical - Engines

# **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 italicised text is used, further information is detailed in the range of conditions section		
1. Plan and prepare	1.1 Work instructions and specifications are identified and confirmed     1.2 Tools and equipment for the job are inspected and faults are rectified or reported     1.3 Materials list is interpreted and materials are selected and prepared		
2. Shift and mount engine	2.1 Workplace procedures are identified and followed		

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Elements	Performance Criteria		
	2.2 Engine is transferred from assembly line to the engine testing area		
	2.3 Engine is mounted in engine testing cradle for hot test procedures		
3. Hot test engine	3.1 Services are connected to the engine, simulating normal operating conditions, and engine is brought to hot operating conditions		
	3.2 Mechanical, sensory and electronic scan tool tests are conducted and results are compared against performance specifications		
	3.3 Minor modifications are carried out according to workplace procedures		
	3.4 Test results are recorded and documented		
	3.5 Engine is designated as conforming or requiring rectification, and is labelled and prepared for transfer to assembly line or engine rectification area		
4. Complete work processes	4.1 Workplace documentation is completed		
	4.2 Work area is cleaned and materials disposed of, reused or recycled according to workplace procedures		
	4.3 Tools and equipment are cleaned, checked, maintained and stored according to workplace procedures		

# **Foundation Skills**

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Skills	Description		
Reading skills to:	interpret work instructions and inspection reports		
	<ul> <li>interpret manuals and specification sheets.</li> </ul>		
Writing skills to:	complete faulty engine and equipment tags		
	complete test and fault rectification reports.		
Numeracy skills to:	identify engineering specifications		
,	<ul> <li>measure parts and components to determine compliance with specifications</li> </ul>		
	interpret results from test equipment.		
Digital literacy skills to:	use engine electronic test equipment.		
Planning and organising	prepare work area, engines and equipment		

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Skills	Description	
skills to:	manage engine test time.	
Problem-solving skills to:	identify engine running defects.	

#### **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.

Workplace procedures must include:	•	engine test equipment operations
	•	recording and reporting
	•	work health and safety (WHS) requirements
	•	workplace quality guidelines.

#### **Unit Mapping Information**

No equivalent unit.

#### Links

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