



Australian Government

AUMATE001 Rework faulty production engines

Release: 1

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Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMATE3001 Rework production engines

Application

This unit describes the performance outcomes required to rework faulty engines based on test results that identify operating inconsistencies or faults.

It applies to those in an automotive and related component manufacturing environment.

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

Competency Field

Common

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 <i>Workplace procedures</i> are identified and applied 1.2 Work instructions, including relevant inspection reports and forms and quality requirements, are identified, confirmed and applied 1.3 Tools and equipment for reworking engine are identified and selected, and checked for faults 1.4 Materials appropriate to the work application are identified, obtained and prepared

Elements	Performance Criteria
2. Confirm test findings	2.1 Engine is tested to simulate normal operating conditions 2.2 Computerised or physical tests are conducted on the reported faults of the engine against designated performance specifications 2.3 Results of tests are confirmed and documented
3. Rectify engine fault	3.1 Fault is identified and diagnosed, and suitable repair is planned 3.2 Rectification is applied according to engineering specifications 3.3 Engine is re-tested to ensure rework has eliminated the fault and final adjustments are made 3.4 Engine is transferred to the designated holding area
4. Complete work processes	4.1 Work area is cleaned, and materials disposed of, reused or recycled according to workplace procedures 4.2 Tools and equipment are cleaned, checked, maintained and stored according to workplace procedures 4.3 Faulty equipment is identified, tagged and reported 4.4 Documentation is completed, outlining work conducted and outcome, 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 - interpret original equipment manufacturer (OEM) manuals and specification sheets.
Writing skills to:	- complete work sheets and fault rectification reports - prepare a repair plan - complete faulty equipment tags.
Oral communication skills to:	give and receive work instructions.
Numeracy skills to:	interpret job instructions and engineering specifications.
Problem-solving skills to:	identify engine faults from test results.

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>Workplace procedures</i> must include:	• continuous improvement processes and standards • workplace quality guidelines • guidelines for recording and reporting faults in vehicle engines • use of repair equipment • work health and safety (WHS) requirements.
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Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=bd587669-08b3-4cd5-85f0-f9fa0c6304c1>