



Australian Government

AUMFTA003 Set and adjust automotive production machine tools

Release: 1

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Modification History

Release	Comment
Release 1	Unit updated to reflect the new standards for Training Packages Replaces AUMFTA3003 Conduct tool setting

Application

This unit describes the performance outcomes required to set and adjust production machine tools.

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

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 Job instructions and quality requirements are located and confirmed with appropriate personnel 1.2 Tools and equipment required for the job are selected and checked for faults and correct operation 1.3 Materials required to complete the job are identified and prepared

Elements	Performance Criteria
2. Select and check machining tools	2.1 Machining tools are selected according to the machine's maintenance schedule and specifications 2.2 Machining tools are inspected and tested for compliance with specifications 2.3 Out-of-specification tools are processed for repair or disposal according to workplace procedures 2.4 Machining tools are cleaned, prepared for use, and protected for transit
3. Remove and replace machining tools	3.1 Required location for the machining tools is checked and confirmed against machine specifications 3.2 Machine is made safe according to work health and safety (WHS) requirements and workplace procedures prior to commencing work 3.3 Machining tools are located and removed, and replacement machining tools are installed and set to machine specifications 3.4 Machine safety guards are checked for correct fitting according to machine specifications 3.5 Test runs are conducted according to WHS requirements and workplace procedures , and sample products are checked
4. Maintain machining tools and stock levels	4.1 Machining tools are maintained according to workplace procedures 4.2 Stock levels of machining tools are reviewed and action taken to avoid stock-out situations 4.3 Stock levels of consumables are maintained to support continuity of operations
5. Complete work processes	5.1 Work area is cleaned, and materials disposed of or recycled according to workplace procedures 5.2 Tools and equipment are cleaned, checked, maintained and stored according to workplace procedures 5.3 Workplace documentation is completed 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 WHS requirements, workplace procedures, job

	- instructions and quality requirements - interpret manufacturer procedures and job specifications.
Writing skills to:	complete machine tool maintenance work sheets.
Oral communication skills to:	confirm job instructions and quality requirements with appropriate personnel.
Numeracy skills to:	identify tool measurements and check them against job specifications.
Planning and organising skills to:	prepare work area, tools and machines to ensure production is not interrupted.

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 programs - recording and reporting - use of tools and equipment - WHS requirements relating to setting and adjusting production machine tools - workplace quality standards for setting and adjusting production machine tools.
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Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AUMFTA003 Set and adjust automotive production machine tools

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Performance Evidence

Before competency can be determined, individuals must have competently set and adjusted production machine tools on a minimum of five occasions.

Individuals must demonstrate they can:

- select, inspect and test machining tools according to work health and safety (WHS) requirements and workplace procedures
- remove, install and set machining tools to specifications
- perform machine test run and test sample products
- maintain stock levels of machining tools
- complete workplace documents, recording tool setting installation date and time and maintenance requirements.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- WHS requirements and workplace procedures relating to setting and adjusting production machine tools
- equipment use and tool settings
- types, application and operation of machine tools
- machine and tool testing procedures
- methods relating to removing, installing and setting tools to:
 - set tools to machine specifications
 - conduct test runs
- methods of maintaining and documenting stock levels of machine tools.

Assessment Conditions

Assessors must satisfy SNR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the automotive production machine tools that they have worked on, e.g. production machine work sheets.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive manufacturing workplace or simulated workplace
- tools, equipment, material and machinery required for conducting tool setting
- a range of machines that require tool setting relevant to motor vehicle or component manufacturing
- workplace procedures to set and adjust production machine tools
- work sheets, job specifications and workplace documentation to record tool setting installation date and time and maintenance requirements.

Links

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