

AUM8052B Conduct mechanical cutting operations

Revision Number: 1



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Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit describes the application of the required skills and knowledge to prepare and operate equipment/plant for mechanical cutting operations.
	No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Application of the Unit

Application of the unit	The unit applies to the automotive and related component manufacturing environment and involves application of
	skills and knowledge at a production worker level. These skills and knowledge are to be used within the scope of the person's job and authority.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil
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Approved Page 2 of 9

Employability Skills Information

Employability skills	This unit contains Employability Skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge and/or the range statement. Assessment of performance is to be consistent with the evidence guide.
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Approved Page 3 of 9

Elements and Performance Criteria

EL	LEMENT	PERFORMANCE CRITERIA
1.	Determine job requirements	1.1.Job specifications and requirements are interpreted and determined from job sheets and / or work instructions
		1.2. Appropriate plant/equipment is selected in accordance with job requirements
		1.3. Appropriate OHS practices are identified and followed in accordance with <i>OHS</i> , <i>legislative</i> and
		organisation requirements
2.	Select and set up cutting machine	2.1. Appropriate machine for the job requirements is selected in accordance with organisation procedures
		2.2. Machine is inspected for safety and operational condition in accordance with organisation procedures
		2.3. Machine is set up and adjusted ready for operation
		2.4. Safety clothing and protective equipment are used according to OHS and organisation requirements
3.	Operate mechanical cutting equipment	3.1.Cutting processes are planned to ensure most economical use of material is achieved
		3.2. Stops and guards are adjusted as required and material secured and positioned prior to machine start-up
		3.3. Machine started following organisation procedures and material cut to meet shape/size/length specifications within appropriate cutting allowances
		3.4. Machine maintenance procedures are completed in accordance with organisation procedures
		3.5. Cutting defects are identified and corrective actions are undertaken in accordance with organisation procedures
4.	Check material for	4.1.In process adjustments carried out as necessary
	conformance to specification	4.2. Material is cut or holed within accepted tolerances according to the job specification

Approved Page 4 of 9

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the essential skills and knowledge and their level, required for this unit.

Required skills

- speak clearly and directly in order to communicate cutting defects to appropriate personnel if necessary
- apply teamwork to a range of situations, including the operation of cutting equipment
- solve problems particularly in teams in order to meet performance indicators
- show initiative in adapting to changing work conditions or contexts particularly when working across a variety of work areas
- access, interpret and apply information on relevant organisation policies, procedures and instructions, particularly to ensure OHS requirements are adhered to
- manage time when planning, preparing and organising work priorities
- take responsibility for organising own work priorities.

Required knowledge

- relevant Occupational Health and Safety and Environmental regulations and enterprise policies and procedures needed to carry out work in a manner which ensures the safety of people, equipment and the environment. The specific regulations will vary according to the area of operation
- enterprise technical work documentation covering procedures, specifications, schedules and work plans or equivalent
- enterprise quality system documentation covering instructions, procedures, performance indicators and review processes or equivalent
- enterprise cost minimisation/waste avoidance policies, procedures and practices
- environmental protection requirements relating to the disposal of waste material
- established communication channels and protocols
- problem identification and resolution techniques.
- procedures to maintain a safe work environment
- set up and operation of cutting equipment
- cutting techniques saw, shears, punch, notch
- materials characteristics and behaviour when heated and cut
- safety hazards
- marking out techniques squaring, straight line, geomet.

Approved Page 5 of 9

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

Assessment Guidennes for this Training Package.		
Overview of assessment		
Critical aspects for assessment and evidence required to demonstrate competency in this unit	 Evidence of the following is essential: compliance with relevant legislative, regulations, standards, codes of practice and establish safe practices and enterprise policies and procedures for managing personal work priorities maintaining a working knowledge of current work systems and practices working and communicating effectively and positively with others involved in the work applying, within authority, the requirements of the job or work role in relation to: achieving production goals achieving work quality goals responding positively to changing work requirements contributing effectively to cost reduction initiatives effectively applying problem solving techniques modify activities to cater for variations in workplace context and environment predetermined standards of quality and safety are observed manual straight line cutting standards are achieved manual or automatic heating and cutting processes meet specifications. 	
Context of and specific resources for assessment	 assessment of the competency should take place in a safe working environment in a passenger motor vehicle manufacturing plant or simulated environment using tools/equipment/machinery required for the production process without undue disruption to the production process assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints. 	

Approved Page 6 of 9

EVIDENCE GUIDE

Method of assessment

A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:

- assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge
- assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application
- assessment may be applied under project related conditions (real or simulated) and require evidence of process
- assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances.

Approved Page 7 of 9

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording in the Performance Criteria is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

OHS requirements may include:	Legislation and regulations, organisational safety policies and procedures and may include: the use of personal protective equipment and clothing, rescue services, fire fighting organisation and equipment, first aid equipment, hazard and risk control and elimination, systems covering the use of hazardous materials and substances and manual handling procedures including lifting and carrying.	
Legislative requirements may include:	Applicable legislation, regulations and codes of practice, including those related to: • anti-discrimination • award and enterprise agreements • confidentiality and privacy • duty of care • employee relations • environment protection • equal opportunity • industrial relations • relevant industry codes of practice.	
Organisation requirements may include:	 access and equity principles and practices environmental management (waste disposal, recycling and re-use guidelines) emergency and evacuation procedures equipment use procedures ethical standards legal obligations maintenance and storage procedures OHS requirements organisational and site guidelines policies and procedures relating to own role and responsibility procedural manuals 	

Approved Page 8 of 9

RANGE STATEMENT		
	•	quality assurance guidelines quality and continuous improvement processes and standards
	•	recording and reporting guidelines.

Unit Sector(s)

Unit sector	Automotive Manufacturing
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Competency field

Competency field	Truck/Bus/Trailer Manufacture and Assembly
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Co-requisite units

Co-requisite units	Nil
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Approved Page 9 of 9