

# MEM05014C Monitor quality of production welding/fabrications

Release: 1



## MEM05014C Monitor quality of production welding/fabrications

# **Modification History**

Not Applicable

## **Unit Descriptor**

<u> </u>	This unit covers performing basic inspection of completed
	or partly completed welded fabrications produced by others
	in a production environment.

# **Application of the Unit**

Application of the unit	This competency would be used in a production welding environment to monitor the quality of production fabrication work where knowledge of the welding
	techniques and testing procedures is required. Duties should be carried out in consultation with appropriately qualified supervisor or engineer.
	Band: A Unit Weight: 2

# **Licensing/Regulatory Information**

Not Applicable

# **Pre-Requisites**

Prerequisite units		
Path 1	MEM05012C	Perform routine manual metal arc welding
	MEM05015D	Weld using manual metal arc welding process

Approved Page 2 of 9

Prerequisite units		
	MEM05051A	Select welding processes
	MEM05052A	Apply safe welding practices
	MEM12023A	Perform engineering measurements
	MEM18001C	Use hand tools
	MEM18002B	Use power tools/hand held operations
Path 2	MEM05017D	Weld using gas metal arc welding process
	MEM05050B	Perform routine gas metal arc welding
	MEM05051A	Select welding processes
	MEM05052A	Apply safe welding practices
	MEM12023A	Perform engineering measurements
	MEM18001C	Use hand tools
	MEM18002B	Use power tools/hand held operations
Path 3	MEM05019D	Weld using gas tungsten arc welding process
	MEM05049B	Perform routine gas tungsten arc welding
	MEM05051A	Select welding processes
	MEM05052A	Apply safe welding practices
	MEM12023A	Perform engineering measurements
	MEM18001C	Use hand tools
	MEM18002B	Use power tools/hand held operations

Approved Page 3 of 9

Prerequisite units		
Path 4	MEM05004C	Perform routine oxy acetylene welding
	MEM05007C	Perform manual heating and thermal cutting
	MEM05051A	Select welding processes
	MEM05052A	Apply safe welding practices
	MEM12023A	Perform engineering measurements
	MEM18001C	Use hand tools
	MEM18002B	Use power tools/hand held operations

# **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 performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Approved Page 4 of 9

#### **Elements and Performance Criteria**

ELEMENT	PERFORMANCE CRITERIA
Monitor quality of welded products	1.1. Weld requirements are identified from specifications and/or drawings.
	1.2. Inspection procedures are carried out to standard operating procedures.
	<ol> <li>Nonconforming welds are reported and corrective action is initiated according to standard operating procedures.</li> </ol>
	1.4. Pre-set gauges are used to monitor quality of product.
2. Initiate testing when required	2.1.Test requirements are implemented according to standard operating procedures and any legislative or regulatory requirements.
3. Undertake procedures reporting	<ul><li>3.1.Data is collected to standard operating procedures.</li><li>3.2.Reports are prepared as required.</li></ul>

## Required Skills and Knowledge

#### REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

#### Required skills

Look for evidence that confirms skills in:

- recognising nonconforming welds
- reading, interpreting and following information on specifications, standard operating procedures, drawings and other applicable reference documents
- using pre-set gauges
- collecting weld test data
- entering routine and familiar information onto proformas and standard workplace forms/reports

#### Required knowledge

Look for evidence that confirms knowledge of:

- the function of pre-set gauges
- test requirements appropriate to the welded product
- legislative and/or regulatory requirements of the welded product

Approved Page 5 of 9

## REQUIRED SKILLS AND KNOWLEDGE

reporting and corrective action procedures

Approved Page 6 of 9

### **Evidence Guide**

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, range statement and the Assessment Guidelines for the Training Package.		
Overview of assessment	A person who demonstrates competency in this unit must be able to monitor the quality of completed or partly completed welded fabrications produced by others in a production environment. Competency in this unit cannot be claimed until all prerequisites have been satisfied.	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts.	
Context of and specific resources for assessment	This unit may be assessed on the job, off the job or a combination of both. Where assessment occurs off the job, i.e. the candidate is not in productive work, appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The competencies covered would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.	
	This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with monitoring the quality of production welding/fabrications or other units requiring the exercise of the skills and knowledge covered by this unit.	
Method of assessment	Assessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways including direct observation, supervisor's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.	

Approved Page 7 of 9

EVIDENCE GUIDE	
Guidance information for assessment	

## **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, if used in the performance criteria, is detailed below. 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) may also be included.

Inspection procedures	Visual/gauges inspections
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## **Unit Sector(s)**

Unit sector	
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## **Co-requisite units**

Co-requisite units	

Approved Page 8 of 9

# **Competency field**

Competency field	Fabrication
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Approved Page 9 of 9