

AA TT PRO 01a

Name of Assessed Person: Registration:

UNIT MEM24012: Apply Metallurgy Principles								
1. Determine job requirements	a. Conduct NDT test appropriate to metal or alloy	No. of Entries	1	2		3	3	
		Tail / Job No.						
		LAME Sign.						
		Date						
		Simulated	Yes No	Yes	No	Yes	No	

Performance Criteria:

- 1.1 Follow standard operating procedures (SOPs).
- 1.2 Comply with work health and safety (WHS) requirements at all times.
- 1.3 Identify job requirements from specifications.

UNIT MEM24012: Apply Metallurgy Principles								
2.		No. of Entries	1	2	2	3	3	
Interpret and apply the principles of solidification and crystal structures and equilibrium diagrams in	a. Conduct NDT test appropriate to metal or alloy	Tail / Job No.						
		LAME Sign.						
		Date						
metals and alloys		Simulated	Yes No	Yes	No	Yes	No	

Performance Criteria:

- 2.1 Interpret principles of solidification and crystal structures in metals and alloys and apply them in relation to NDT techniques.
- 2.2 Source and interpret equilibrium diagrams for metals and alloys.



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UNIT MEM24012: Apply Metallurgy Principles									
		No. of Entries	1	2	2	9	3		
Interpret and apply the principles for fusion welding of metals and alloys	a. Conduct NDT test appropriate to metal or alloy	Tail / Job No.							
		LAME Sign.							
		Date							
		Simulated	Yes No	Yes	No	Yes	No		

Performance Criteria:

- 3.1 Apply principles and methods for fusion welding of metals and alloys to NDT test selection.
- 3.2 Identify defects in weldments and classify them from NDT test results.

UNIT MEM24012: Apply Metallurgy Principles								
4. Interpret and apply the principles of the formation of castings		No. of Entries	1		2		(7)	3
		Tail / Job No.						
		LAME Sign.						
		Date						
		Simulated	Yes N	o Y	Yes	No	Yes	No

Performance Criteria:

- 4.1 Apply principles and methods used to produce metal castings to NDT test selection.
- 4.2 Identify defects in metal and alloy castings and classify them from NDT test results.



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5. Interpret and apply the principles of steel forging	a. Conduct NDT test appropriate to metal or alloy	No. of Entries	1	2		3			
		Tail / Job No.							
		LAME Sign.							
		Date							
		Simulated	Yes No	Yes No	Yes	No			

Performance Criteria:

- 5.1 Apply principles and methods used to produce steel forgings to NDT test selection.
- 5.2 Identify defects in steel forgings and classify them from NDT test results.

UNIT MEM24012C: Apply Metallurgy Principles								
6. Interpret and apply the principles of mechanical testing	a. Conduct NDT test appropriate to metal or alloy	No. of Entries	1	2		3		
		Tail / Job No.						
		LAME sign						
		Date						
		Simulated	Yes No	Yes No	Yes	No		

Performance Criteria:

- 6.1 Apply principles of mechanical testing to NDT test selection.
- 6.2 Identify defects in metal products and classify them from NDT test results.



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Name of Assessed Person: **Registration:**

Certification of Underpinning Knowledge and Skills to Apply Metallurgy Principles

A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements of this unit of competency are being achieved under routine supervision on each type of system and on at least one (1) component of each group listed in the assessment conditions a) that are applicable to the enterprise. This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Implementation Guide).

UNIT MEM24012: Apply Metallurgy Principle	es		
Evidence has been confirmed of the attainment of the		units of competency (as they are related	
to the attainment of the elements of competency sp		, , ,	
M	EM13015, 16006		
Evidence has been confirmed of the knowledge requ	irements for this unit as	delivered by a CASR 147 Approved	
Organization.			
	OR		
	O.I.		
Assessment has been conducted to determine that t	he underpinning knowled	dge and skills have been achieved in	
accordance with the Competency Unit.			
Certification of Unit Completion			
I certify that I have reviewed the certification of the e	lements for this compete	incv unit and that all of the competency un	it requirements have been met
rectify that mave reviewed the certification of the e	iements for this compete	they differ and that all of the competency an	it requirements have been met.
Signed:	Assessor No.	MTO:	Date:
Approved by Technical Training Manager	0	1/12/2022	Por 2 Page: 4 of 4