

Name of Assessed Person:

Registration:

UNIT MEM24004: Perform Magnetic Particle Testing

1. Determine job requirements	a. Perform magnetic particle testing.	No. of Entries	1	2	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 Use appropriate personal protective equipment (PPE) in accordance with SOPs.
- 1.4 Identify job requirements from specifications.

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2. Prepare Inspection areas for Magnetic Particle Testing	a. Surface cleaning and drying.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 2.1 Identify inspection areas, clean them, and prepare for testing using appropriate procedures and materials.
- 2.2 Carry out preparation processes in accordance with the relevant procedures and statutory requirements.
- 2.3 Assess inspection areas visually and identify obvious discontinuities.

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3. Perform tests	a. Observed changes in material homogeneity	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 3.1 Select the most appropriate magnetic particle test for the material and/or application.
- 3.2 Select testing equipment and prepare in accordance with standards and/or procedures.
- 3.3 Carry out magnetic particle tests in accordance with relevant standards and specifications.
- 3.4 Check magnetic particle testing equipment for defects and maintain and store in accordance with procedures and manufacturer instructions.

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4. Interpret and Report the Results of Penetrant Test(s)	a. Accurate identification of location and size of discontinuities.	No. of Entries	1	2	3
		Tail / Job No.			
		LAME Sign.			
		Date			
		Simulated	Yes No	Yes No	Yes No

Performance Criteria:

- 4.1 Assess indications and detect defects and classify them in accordance with national and international codes and standards.
- 4.2 Confirm defects in accordance with organizational procedures and industry practices.
- 4.3 Report test results in accordance with organizational procedures, accepted industry practices, and customer service requirements.

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Certification of Underpinning Knowledge and Skills to Perform Magnetic Particle Testing

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).

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Evidence has been confirmed of the attainment of the following pre-requisite units of competency (as they are related to the attainment of the elements of competency specified in this unit).	
MEM11011, 13015, 16006, 18001, 24012	
Evidence has been confirmed of the knowledge requirements for this unit as delivered by a CASR 147 Approved Organization.	
OR	
Assessment has been conducted to determine that the underpinning knowledge 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 elements for this competency unit and that all of the competency unit requirements have been met.

Signed: _____ **Assessor No.** _____ **MTO:** _____ **Date:** _____

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