

Name of Assessed Person:

Registration:

**UNIT MEM24002: Perform Penetrant Testing**

<b>1.</b> <b>Determine job requirements</b>	a. Perform penetrant 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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<b>2. Prepare Inspection areas for Penetrant Testing</b>	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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<b>3. Perform tests</b>	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 penetrant test for the material and/or application.
- 3.2 Select test equipment and prepare in accordance with standards and/or procedures.
- 3.3 Select and apply appropriate test media in accordance with workplace and/or industry practices.
- 3.4 Carry out penetrant tests in accordance with relevant standards and specifications.
- 3.5 Check penetrant test equipment for defects and maintain and store it in accordance with procedures and manufacturer instructions.

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<b>4.</b> <b>Interpret and Report the Results of Penetrant Test(s)</b>	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, detect defects, and classify 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 including accurate identification of location and size of discontinuities in accordance with organizational procedures, accepted industry practices, and customer service requirements.

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**Certification of Underpinning Knowledge and Skills to Perform Penetrant 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).

<b>UNIT MEM24002: Perform Penetrant Testing</b>	
<p>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).</p> <p style="text-align: center;"><b>MEM11011, 13015, 16006, 18001, 24012</b></p>	
<p>Evidence has been confirmed of the knowledge requirements for this unit as delivered by a CASR 147 Approved Organization.</p> <p style="text-align: center;"><b>OR</b></p> <p>Assessment has been conducted to determine that the underpinning knowledge and skills have been achieved in accordance with the Competency Unit.</p>	

**Certification of Unit Completion**

I certify that I have reviewed the certification of the elements for this competency unit and that all the competency unit requirements have been met.

**Signed:** \_\_\_\_\_ **Assessor No.** \_\_\_\_\_ **MTO:** \_\_\_\_\_ **Date:** \_\_\_\_\_

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