



Australian Government

Assessment Requirements for MEM24011 Establish non-destructive tests

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM24011B Establish non-destructive tests.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting specifications, relative testing and conformance standards and applying safety procedures and legislative requirements for establishing non-destructive tests
- conducting metallurgical assessment of inspection areas in accordance with accepted techniques and procedures
- designating the most appropriate method, technique or procedure for specific non-destructive testing (NDT) work on at least two occasions
- developing and validating test procedures appropriate to the testing method selected on at least two occasions
- evaluating inspection results and evaluating in terms of existing codes, standards and specifications on at least two occasions
- evaluating procedures and making required changes
- documenting evaluation results in accordance with procedures.

Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- application of metallurgical analysis to assess inspection areas
- NDT methods, techniques and procedures
- meaning and validity of relevant codes, standards, specifications and procedures
- test procedure for testing techniques and specimen
- validation processes
- process for approval, documentation and distribution of procedures
- evaluation procedures
- process for documentation of evaluation results
- process for amending tests and distributing amendments.

Assessment Conditions

- Assessors must:
 - have vocational competency in establishing non-destructive tests at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015 or its replacement* and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires.
- Where possible, assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required including relevant workplace procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>