



Australian Government

Assessment Requirements for MEM05086 Set and edit computer controlled thermal cutting machines

Release: 1

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Modification History

Release 1. Unit code changed. Changes to elements and performance criteria and performance evidence. Supersedes and is not equivalent to MEM05053 Set and edit computer controlled thermal cutting machines.

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 the ability to:

- follow work instructions, standard operating procedures (SOPs) and safe work practices
- identify and interpret job specifications, drawings, and other applicable work instructions for information relevant to set and edit computer controlled thermal cutting machines
- prepare computer controlled thermal cutting machine for work according to the thickness of material and minimisation of distortion on at least two occasions
- replace worn or damaged nozzles, regulators, fixtures, devices and tools
- trial programs by checking sample cut for compliance and undertaking program editing to ensure job conforms with specifications on at least two occasions

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)
- machine set up procedures
- work holding devices, their application and procedures for mounting them
- location of work holding fixtures, devices and tools relative to the machine zero or datum
- computer controlled thermal cutting machine operating procedures
- computer controlled thermal cutting machine safety features and equipment
- measuring devices and/or techniques for checking the parts or product
- effects of changes to gas mixtures and nozzle or work piece speed
- impact of changes to the sequence of operations on the part or product to be produced
- procedures for editing programs via the machine controller
- sequence of operations of the machine and/or process
- corrective action to be taken for worn or damaged tooling.
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Assessment Conditions

- Assessors must:
- have vocational competency in setting and editing computer controlled thermal cutting machines 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.
 - Assessment must occur in a functioning workplace. Where assessment in the workplace would be unsafe, impractical or threatens the environment, assessment must occur in a sufficiently rigorous simulated environment that reflects the circumstances that would be experienced in a functioning workplace. Assessment must cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills.
- Knowledge assessment may be either verbal or written but must adequately reflect the knowledge requirements of the unit in a functioning workplace.
- 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.
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Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>