



Australian Government

Assessment Requirements for MEM05053 Set and edit computer controlled thermal cutting machines

Release: 2

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Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM05053 Set and edit computer controlled thermal cutting machines (Release 1).

Release 1. Supersedes and is equivalent to MEM05053A 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 on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- preparing thermal cutting machine for work according to the thickness of material and minimisation of distortion
- trialling program by checking sample cut for compliance and undertaking program editing to ensure job conforms with specifications
- instructing operator, if necessary, including ensuring all safety procedures and devices are in place
- replacing worn or damaged nozzles, regulators, fixtures, devices and tools.

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)
- ancillary equipment and its applications
- procedures for attaching the ancillary device(s) to the NC/CNC machine
- work holding devices, their application and procedures for mounting them
- location of work holding fixtures/devices/tools relative to the machine zero or datum
- operating procedures
- safety features and equipment
- measuring devices/ 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/process
- corrective action to be taken for worn or damaged tooling.

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.
- 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>