



Australian Government

Assessment Requirements for MSTTF3003 Produce patterns for 3-D products

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to LMTTF3003A Produce patterns for 3D products

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:

- reading and following work instructions, standard operating procedures (SOPs), safe work practices and other reference material
- applying relevant standards
- interpreting work orders and customer information
- interpreting specifications for components that are to form part of finished products
- identifying appropriate computer applications and keying in required information or transferring from other sources to initiate design or production processes
- operating a desktop or laptop computer and relevant software to produce at least two (2) patterns for 3-D products
- using spreadsheets or other appropriate software applications to perform complex materials calculations, financial tasks and costing
- operating a plotter to construct 3-D drawings, mark out templates, or cut complex shapes in material
- complying with all relevant safety requirements, including safe use of plotting tables for cutting out materials
- checking product quality
- making calculations and costings according to workplace procedures
- documenting, saving and communicating work-related data information according to workplace procedures.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- relevant Australian Standards
- range of products and services offered by the workplace
- product construction processes
- computer hardware
- software packages used in the workplace
- computer or plotter interfaces
- 3-D drawing and calculation processes
- mathematical processes and formulae for area and volume

- geometry and geometrical shapes
- principles and practices of engineering drawing
- quality practices
- workplace procedures
- practices for recording and reporting.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment, as set by the VET regulator
 - have vocational competency in producing patterns for 3-D products, at least to the level being assessed, with relevant industry knowledge and experience.
- Assessment should 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 reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- 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.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a203ec5c-de7d-406b-b3e1-8f1a9b76e92e>