



Australian Government

Assessment Requirements for MSTGN4002 Participate in product engineering

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to LMTGN4002A Participate in product engineering

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
- applying relevant standards
- confirming specifications
- determining structure and composition of material or product
- making calculations, interpreting and using data from various sources
- assessing options for method of production
- establishing potential machine and production changes
- identifying material requirements, economical batch sizes, labour hours, times and other statistics required, and making cost estimates
- determining available machine hours, making estimates, where required, and estimating costs
- maintaining production planning records and preparing reports, where necessary, in accordance with 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
- machines and their capabilities
- quality assurance processes; production processes and software
- costing procedures for:
 - materials
 - economical batch hours
 - labour
 - machine hours
 - other statistics
- methods of production
- products produced by the workplace and material or fabric structure (techniques)
- work and workplace organisation systems

- quality practices
- workplace procedures
- recording and reporting practices.

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 participating in product engineering, 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
- The unit is applicable to all TCF sectors and assessment must ensure it is delivered to suit the industry it is being applied to.

Links

Companion Volume implementation guides are found in VETNet -

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