



Australian Government

Assessment Requirements for MSTTN2006

Identify purpose and performance outcomes of technical textile product

Release: 1

Assessment Requirements for MSTTN2006 Identify purpose and performance outcomes of technical textile product

Modification History

Release 1. Supersedes and is equivalent to LMTTN2006B Identify purpose and performance outcomes of technical textile product

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
- identifying at least five (5) application areas for technical textiles
- identifying primary purpose and intended performance of at least two (2) technical textiles
- identifying manufacturing process for at least two (2) technical textiles
- identifying quality specifications of at least two (2) technical textiles
- identifying at least two (2) testing procedures used to assess quality or performance of technical textile
- applying 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
- purpose, manufacturing process and performance characteristics of technical textiles
- process:
 - plaiting
 - knotting
 - weaving
 - warp and weft knitting
 - stitchbonding
 - braiding
 - dry laid and spun bond non-woven manufacturing
 - calendering
 - raising
 - cropping
 - compressive shrinking

- heat setting
- coating
- laminating
- fusing
- technical effects:
 - abrasion resistance
 - low or high permeability to gases and liquids
 - flame retardant
 - low flammability
 - resistance to chemicals
 - protection against sunlight caused weathering
 - oxidation resistance
 - fire resistance or protection
 - water-repellent finish
 - anti-static finish
 - anti-microbial and anti-fungal property
 - non-shrink properties
 - electrical conductivity or insulation
 - phase change as in fibres that can alter according to external conditions, such as temperature
 - conversion of light to heat
 - bio compatibility
 - digital operations
- different methods of production for technical textiles
- range of applications for technical textiles:
 - medical
 - hygiene
 - sporting
 - transportation
 - construction
 - agricultural
 - other purposes
- WHS practices, including hazard identification and control measures
- quality practices
- workplace procedures.

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 identifying purpose and performance outcomes of technical textile product, 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>