



Australian Government

Assessment Requirements for MSTTX4002 Understand and apply textile science

Release: 2

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Modification History

Release 2. Supersedes and is equivalent to MSTTX4002 Understand and apply textile science (Release 1).

Pre-requisite unit, MSTGN2011 Identify fibres, fabrics and textiles used in the TCF industry, is **superseded by** MSTGN2013 Identify fibres, fabrics and textiles used in the TCF industry.

Release 1. Supersedes and is equivalent to LMTTX4002A Understand and apply textile science.

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
- identifying relevant textile processes and production procedures
- identifying physical and chemical properties of at least two (2) textile materials and the effects of textile processing on these properties
- determining potential impact of textile processes and production procedures on textiles and associated materials
- interpreting impact of textile processes and production procedures on textiles and associated materials accurately
- conducting tests to determine effects of textile processing, as required
- applying workplace procedures
- maintaining accurate records.

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
- textile industry terminology
- physical properties of textiles and associated materials
- chemical properties of textiles and associated materials:
 - fat content
 - chemical concentrations
- physical properties of textiles and other materials:
 - weight or mass

- density
- length
- strength
- moisture content
- standard textile treatments and processing techniques:
 - various production processes
 - dyeing and colouration
 - special treatment or finishing
 - printing
 - use in textile products
- proofing techniques (e.g. water and flame)
- standard textile test procedures
- textile test equipment
- international or workplace specification standards
- quality criteria
- quality practices
- production processes
- enterprise lines of authority
- 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 applying textile science, 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>