



Australian Government

MSTGN2013 Identify fibres, fabrics and textiles used in the TCF industry

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSTGN2011 Identify fibres, fabrics and textiles used in the TCF industry.

Unit code changed. Range of conditions removed. Element removed. Repeated performance criteria removed. Foundation skills information added. Assessment requirements amended. Equivalent outcome.

Application

This unit of competency describes the skills and knowledge required to identify fibres, yarns, fabrics and textile materials and how they are used in the construction of garments and accessories and in textile production processes.

The unit applies to a range of natural and synthetic materials, which may be used for knitted, woven, spun, tufted and non-woven products. While the unit relates to a comprehensive range of textile, clothing and footwear (TCF) materials, it may be contextualised to a sector or workplace. The unit applies to work conducted in all clothing design, production and merchandising, and textile production and finishing processes using fibres, yarns, fabrics and textiles. It may be conducted in small to large scale workplaces materials in all sectors of the TCF industr and may involve individual and team related activities.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

N/A

Unit Sector

Generic

Elements and Performance Criteria

Elements	Performance Criteria	
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.	
1. Distinguish types of TCF materials and production processes	1.1	Distinguish types of fibres and yarns, fabrics and textile materials used in manufacture of clothing and textile products
	1.2	Identify methods of distinguishing and identifying fibres,

Elements	Performance Criteria	
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.	
		yarns and textile materials
	1.3	Identify common and emerging fabrics used in garment industry
	1.4	Identify processes used on raw fibres, basic processed yarns, and finished yarns to create textiles
2. Identify characteristics of fabrics	2.1	Identify fibres used in the construction of different fabrics
	2.2	Identify construction processes of different fabrics
	2.3	Examine a range of fabric types and identify their physical and visual qualities
	2.4	Identify generic and trade names for common fabrics and textile materials
3. Distinguish methods of constructing fabric and textile material	3.1	Identify purposes of different stages in textile product construction process
	3.2	Distinguish basic processes of spinning fibres into yarns and processing yarns into knitted, woven and non-woven textile material
	3.3	Identify textile product construction processes
	3.4	Identify uses of different types of fibres and yarns and their effects on finished products
4. Identify uses of fabrics and textiles	4.1	Identify common uses of a range of fabrics and labelling requirements
	4.2	Identify textile products and their end uses and labelling requirements
	4.3	Identify and measure fabric and textile material quality for identified purpose
	4.4	Identify impact of quality on production processes

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria of this unit of competency.

- Reading skills to interpret:
 - work instructions, standard operating procedures (SOPs), and specifications
 - regulatory and industry standards
- Numeracy skills to calculate measurements of fabric and textile products

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSTGN2011 Identify fibres, fabrics and textiles used in the TCF industry.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSTGN2013 Identify fibres, fabrics and textiles used in the TCF industry

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- identified the labelling requirements of at least five textile materials, according to relevant standards
- identified the types of fibres and the construction process used in five different samples of fabric
- identified physical and visual properties of at least five common fabrics or textiles, including emerging materials, relevant to sector or workplace
- distinguished methods of constructing fabric and textile material
- identified suitable application and end uses of at least five fibres, yarns, fabrics and textile materials, relevant to sector or workplace
- compared fibres, yarns, fabrics and textile materials (minimum one of each) to specifications and quality requirements in an identified sector or workplace.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- key components of AS/NZS 1957:1998 Textiles - Care labelling, with variations and additions made by Consumer Protection Notice No. 25 of 2010 relevant to identifying fibres, fabrics and textiles used in textiles, clothing and footwear (TCF) industry
- techniques for identifying fibre, yarn, fabric and textiles, including:
 - natural fibres: cotton, wool, silk and linen
 - synthetic fibres: polyamide, polyester, acrylic, lycra, rayon and acetate
- types of fabrics and textiles and their construction methods:
 - natural and synthetic single yarn fabrics and blends
 - knitted fabrics: weft knits and warp knits
 - woven fabrics: plain, twill, satin, dobby, jacquard and pile
 - non-woven fabrics: felts, nets, braids, bonded and composite
 - emerging smart fabrics

- features and characteristics of fibres, yarns, fabrics and textile materials:
 - bias
 - stretch
 - fraying
 - feel
 - handle
 - shrinkage
- construction processes for the following fibres, yarns and textiles:
 - spun
 - ply
 - combo
 - blended
 - crimped
 - monofilament
 - multifilament
 - staple spun
 - technical textiles
- methods of identifying fibres:
 - labelling
 - visual
 - handle
 - acetone
 - burn test
- fabric construction processes:
 - knitting
 - weaving
 - blending
 - fusing
 - bonding
 - finishing
- visual features of products:
 - colours
 - textures
 - patterns
 - right side and wrong side
- fabric and textile qualities:
 - firmness
 - softness
 - handle
 - weight

- grain
- gauge
- drape
- porosity
- count
- light penetration
- generic and trade names for common fabrics and textile materials
- fabric and textile uses.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including different fibres, fabrics and textiles required in performance evidence.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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