



Australian Government

MSTCL4001 Perform sample machining of advanced construction garments

Release: 3

MSTCL4001 Perform sample machining of advanced construction garments

Modification History

Release 3. Supersedes and is equivalent to MSTCL4001 Perform sample machining of advanced construction garments (Release 2)

Prerequisite - MSTGN2011 Identify fibres, fabrics and textiles used in the TCF industry **superseded by** MSTGN2013 Identify fibres, fabrics and textiles used in the TCF industry

Release 2. Data entry errors re listed prerequisites corrected - MSTCL2001 and MSTCL2004 replaced with MSTFD2006. Equivalent.

Release 1. Supersedes and is equivalent to LMTCL4001A Perform sample machining of bespoke garments

Application

This unit of competency covers the skills and knowledge required to interpret design and advanced construction pattern specifications, and perform sewing operations to complete sample garments.

This unit of competency applies to sample machining of garments involving all sewing operations required to sew a complete design sample featuring advanced construction, and assemble complete garments to design specifications.

Work is independent, with the operator being responsible for own outcomes and may have some responsibility for the work of others.

Work may be conducted in small to large scale enterprises and may involve individual and team activities.

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

Pre-requisite Unit

MSTCL3002 Prepare and produce a complex whole garment from specifications

MSTFD2006 Use a sewing machine for fashion design

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

Competency Field

Clothing production

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Determine job requirements	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		1.3	Use appropriate personal protective equipment (PPE) in accordance with SOPs
		1.4	Identify job requirements from specifications, drawings, job sheets or work instructions
2	Prepare to machine advanced construction garment	2.1	Analyse design specifications to identify advanced construction requirements
		2.2	Prepare workstation tools and equipment
		2.3	Examine garment components to ensure that they comply with pattern specifications and make any adjustments as required
		2.4	Determine advanced construction requirements and plan sequence of operations
3	Sew garment	3.1	Conduct sewing operations according to requirements of pattern, component detail and design
		3.2	Use all machines required to produce a complete design sample
		3.3	Control machine speed and work handling for type of operations, fabrics and product
		3.4	Regularly check performance of machine for signs of faulty operation
		3.5	Perform garment embellishment, where necessary, to meet design specifications

		3.6	Finish garment and inspect against design and pattern specifications
		3.7	Record results of inspection of finished garment
4	Review design and production processes	4.1	Identify garment construction problems, provide feedback to designers and patternmakers, and document
		4.2	Review production processes to assess timing and task requirements and identify alternative processes to achieve more efficient or effective outcomes
		4.3	Use appropriate communication tools to review sample garment and production with appropriate personnel
		4.4	Document outcomes of communication and maintain records

Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Workplace procedures include one or more of the following:

- requirements prescribed by legislation, awards, agreements and conditions of employment
- SOPs
- work instructions
- PPE
- oral, written and visual communication
- quality practices, including responsibility for maintenance of own work quality and contribution to quality improvement of team or section output
- housekeeping
- tasks related to environmental protection, waste disposal, pollution control and recycling

	• WHS practices
Australian Standards include:	• the relevant industry or Australian Standards that are current at the time this unit is being undertaken
Garments include one or more of the following:	• commercially tailored garments, such as: • suits • coats • jackets • trousers • skirts • dresses • evening wear
Determine construction requirements include the following:	• analysing pattern to determine machining and assembly requirements • examining fabrics, trims and accessories and preparing items for attachment • clarifying construction or design details with the designer or pattern maker as required • developing plan for garment construction and sequence of operations
Machines include three or more of the following:	• plain lockstitch sewing machine • three, four or five thread overlocker • zigzag sewing machine • blind hemmers • buttonholers • pocket and collaring machines • elasticators • binders • specialist machines, such as binding, moulding and embroidery

Unit Mapping Information

Release 3. Supersedes and is equivalent to MSTCL4001 Perform sample machining of advanced construction garments (Release 2)

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

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bespoke garments

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 MSTCL4001 Perform sample machining of advanced construction garments

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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, design specifications
- applying relevant standards
- preparing and setting up machines and determining all construction requirements
- operating and maintaining at least three (3) types of machines required for complete operations
- performing a range of sewing operations, where the positioning, feeding and handling of work pieces involves discretionary changes, contouring or critical stopping points, and where special handling skills are required to accommodate fabric variations
- completing all operations to sew at least two (2) complex whole advanced construction garments that include multiple pieces, such as sleeves, collars and trims according to garment requirements, quality standards and required operations
- controlling machine speed and work handling for type of operations, fabrics and product type according to workplace procedures
- performing embellishment, where required, and finishing garment to meet design specifications
- inspecting garment construction problems, providing feedback to designers and patternmakers and documenting
- reviewing production processes, identifying alternative processes to achieve more efficient or effective outcomes, and using appropriate communication tools to review sample garment and production with appropriate personnel
- documenting outcomes of communication and maintaining 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
- characteristics of a variety of fabrics, threads and other materials used in garment assembly
- design specifications for advanced construction garments, such as:
 - type of garment
 - style requirements
 - fit model specifications
 - sizing
 - design restrictions or conditions
 - trims and accessories
 - fabric
- sequence of operations to produce a completed sample product
- operation of variety of production machines required to complete garment assembly
- construction specifications, such as:
 - multiple interfacings
 - tailored collars
 - cut-in pockets
 - vents
 - linings
 - wide range of commonly used and specialised fabrics
- machine set-up:
 - clean machines
 - set up and adjust machines according to specifications for work
 - check needles, attachments and parts
 - identify worn needles and parts and report or replace according to manufacturer instructions
- hand embellishment techniques, such as:
 - beading
 - smocking
 - embroidery stitches
 - fabric manipulation
- machine embellishment, such as:
 - quilting
 - pintucking
 - shirring
 - machine embroidery
 - appliqué

- lace insertion
- garment finishing, such as:
 - trimming loose threads
 - checking
 - spotting
 - sorting
 - hand or machine sewing buttons or fasteners
 - hand or machine sewing hems
 - securing lining
 - sewing and cutting buttonholes
 - attaching accessories or trims
 - attaching tickets and labels
 - bundling
- communication with appropriate personnel:
 - managers
 - colleagues
 - specialist staff
 - designers
 - patternmakers
 - production supervisors
- quality practices
- workplace procedure
- 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 performing sample machining of advanced construction items, 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.

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