



Australian Government

Department of Education, Employment and Workplace Relations

LMTFD5018B Determine and specify advanced construction processes

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge to determine and specify advanced construction processes to achieve desired design details.

Application of the Unit

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The unit covers being able to identify design details used in the production of garments for the purpose of achieving specific effects such as embellishing fabric to give a garment a more unique, individual appearance. It also covers the development of construction specifications and standard operating procedures to guide the production of garments which incorporate design detail.

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

The application of this unit is according to OHS practices of the enterprise and workplace practices, which may include:

- requirements prescribed by legislation, awards agreements and conditions of employment
- standard operating procedures
- work instructions
- 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

This unit requires skills in problem solving, initiative and enterprise and planning and organising in order to determine construction requirements to achieve specific design outcomes. Communication skills are used to document specifications and construction requirements and self management and learning skills are used to review and modify processes and ensure quality outcomes are achieved.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisites

Employability Skills Information

Employability Skills This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Not applicable.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Determine design details	<p>1.1 <i>Design details</i> are identified and clarified.</p> <p>1.2 Garment is enhanced by using design details.</p> <p>1.3 Positions of design details on garment are identified.</p>
2 Develop design detail specifications	<p>2.1 Artwork/drawings/specifications are prepared in appropriate format, including any additional documentation required.</p> <p>2.2 <i>Advanced garment construction processes</i> are identified and planned.</p> <p>2.3 <i>Machine or equipment</i> requirements are determined.</p>
3 Plan advanced construction process	<p>3.1 Plan for advanced construction process is developed.</p> <p>3.2 Garment construction plan is documented.</p>
4 Produce sample design detail	<p>4.1 Appropriate fabric and components are selected.</p> <p>4.2 Advanced construction processes are undertaken according to <i>OHS practices</i> and checked to ensure design detail is achieved.</p> <p>4.3 Sample is evaluated for desired results.</p> <p>4.4 Modifications are made to plan and sample as required.</p>
5 Present advanced construction process plan	<p>5.1 Process plan is discussed with team to ensure all requirements are understood.</p> <p>5.2 Tasks are appropriately assigned according to available expertise and production requirements.</p> <p>5.3 Information relating to standard operating procedures, constraints, preferred processes, designs and advance construction process is conveyed to team.</p> <p>5.4 Design specification sheet, drawings, samples and patterns are presented and analysed with team.</p> <p>5.5 Relevant technical, monitoring and reporting procedures are established.</p>
6 Maintain records	<p>6.1 Records are maintained and reports prepared, where necessary.</p> <p>6.2 Records are filed and stored.</p>

Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

Demonstrates knowledge of:

- garment construction
- garment fabrics and components
- relevant OHS legislation, regulatory requirements and copyright obligations and codes of practice
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- recording and reporting practices

Demonstrates skills to:

- compile information
- select, interpret and apply procedures, processes and motor skills
- prepare and present reports and information in appropriate formats
- consistently achieve quality and production output requirements
- communicate effectively with individuals, work groups and supervisors
- read, interpret and follow information on work specifications, standard operating procedures and work instructions, and other reference material
- maintain accurate records
- sequence operations
- meet specifications
- clarify and check task-related information
- carry out work according to OHS practices

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence	Demonstrates skills and knowledge to: <ul style="list-style-type: none">• identify design details• identify process to achieve design details• identify advanced garment construction processes• identify quality standards• develop standard operating procedure• communicate effectively with construction team, customers, etc.• apply OHS practices in work operations• maintain accurate records
Consistency in performance	Consistently applies skills and knowledge when: <ul style="list-style-type: none">• organising work• completing tasks• identifying improvements• using workplace practices• using OHS practices• recording and reporting accidents and incidents• assessing operational readiness of equipment used and work processes• recognising and adapting to cultural differences in the workplace, including modes of behaviour and interactions• completing work systematically with attention to detail without damage to goods and equipment
Resource implications	Access is required to real or appropriately simulated situations, including work areas, materials and equipment, and to information on workplace practices and OHS practices.
Context for assessment	Assessment may occur on the job or in an appropriately simulated environment.
Interdependent assessment	This unit may be assessed independently or in combination with other relevant units.

Range Statement

RANGE STATEMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the Performance Criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

Legislative/regulatory requirements	All work must comply with relevant Federal and State or Territory legislative or regulatory requirements.
Design details may include:	<ul style="list-style-type: none"> • printing • dyeing • fraying • cutting fabric on bias • painting • beading • embroidery
Advanced garment construction processes may include:	<ul style="list-style-type: none"> • cut-in and applied pockets and tabs • contoured and layered insets • intricate closures and seaming • requirements of unique fabrics and components • quilting • drawn thread work • appliqu�� • rouleau
Machine/equipment may include:	<ul style="list-style-type: none"> • a full range of machines required to complete design detail which may include a combination of the following: plain lockstitch sewing machine, a three, four or five thread overlocker, a zigzag sewing machine, blind hemmers, buttonholers, button sewers, pocket and collaring machines, elasticators and binders • printing and stencilling equipment • hoops • hand sewing and machine accessories and attachments
OHS practices	<p>OHS practices must include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit and may include:</p> <ul style="list-style-type: none"> • manual handling techniques • standard operating procedures • personal protective equipment

- safe materials handling
- taking of rest breaks
- ergonomic arrangement of workplaces
- following marked walkways
- safe storage of equipment
- housekeeping
- reporting accidents and incidents
- other OHS practices relevant to the job and enterprise

Unit Sector(s)

Sector Fashion Design and Technology