



Australian Government

Department of Education, Employment and Workplace Relations

LMFUP3012B Apply marine sewing and installation techniques

Revision Number: 1

LMFUP3012B Apply marine sewing and installation techniques

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to use marine sewing techniques in the completion of upholstery products/items.
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Application of the Unit

Application of the unit	
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work	1.1. Job requirements are identified from work instructions 1.2. Workplace health and safety requirements, including personal protection needs, are observed throughout the work 1.3. Machines, attachments, materials, work method and sequence are determined 1.4. Equipment, including any supplementary equipment, is identified and checked for safe operation, components and controls 1.5. Materials are identified and inspected and problems, including any materials or part constructed products which do not meet the job order requirements, are identified and reported in accordance with workplace procedures 1.6. Work pieces are laid out in sequence in accordance with specifications and workplace procedures
2. Conduct sewing operation	2.1. Sewing machine (including attachments as required), set up requirements and adjustments are observed in accordance with workplace procedures 2.2. Appropriate thread type and size is fitted to machine 2.3. Machine is operated to maintain required product quality and outputs 2.4. Reinforcing/protective measures, fittings/attachments and fixing devices are attached in accordance with workplace procedures 2.5. Finished products are inspected for quality with unacceptable items being reprocessed in accordance with workplace instructions
3. Complete work	3.1. Unused materials are stored as required 3.2. Workplace required documentation, including stock usage, is completed and processed following workplace procedures 3.3. Work area is cleaned and damaged tools and equipment tagged as required 3.4. Waste is collected and bundled for recycling/reuse as required by workplace procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- collect, organise and understand information related to work orders, basic plans, and safety procedures
- communicate ideas and information to enable confirmation of work requirements and specifications, coordination of work with work supervisor, other workers and customers, and the reporting of work outcomes and problems
- plan and organise activities including the preparation and layout of the work area and the obtaining of equipment and materials to avoid any back tracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- use mathematical ideas and techniques to correctly complete measurements, calculate work requirements, optimise component and material sizes for economical cutting and assemble required materials
- use pre-checking and inspection techniques to plan work, avoiding re-working and wastage
- use the workplace technology related to the application of marine sewing and application techniques

Required knowledge

- procedure for reporting damaged or imperfect products or interruption to workflow
- workflow requirements for sewing process
- operation of work systems and sewing equipment
- characteristics of materials used and application and requirements of the finished products
- causes of faults and repair methods
- identification of equipment, processes and procedures
- quality systems and standards
- workplace procedures

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence

- Interpret work order and locate and apply relevant information
- Identify and select materials used and any special handling requirements for those materials
- Follow work instructions, operating procedures and inspection practices to:
 - minimise the risk of injury to self and others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
- As a minimum:
 - prepare and install a minimum of 3 square metres of cover to at least 3 vertical or horizontal surfaces
 - sew at least three covers
 - sew appropriate fasteners and attachments to covers sewn
- Work effectively with others
- Modify activities to cater for variations in workplace contexts and environment

Resource implications

Appropriate sewing machine, work orders, operating procedures, materials, fittings and threads.

Method of assessment

Assessment methods must confirm consistency of performance over time and in a range of workplace relevant contexts.

Assessment should be by direct observation of tasks and questioning on underpinning knowledge.

Assessment should be conducted over time and may be in conjunction with assessment of other units of competency which form a part of the job role.

Context of assessment

Assessment may occur on the job or in a workplace simulated facility with relevant process equipment, materials, work instructions and deadlines.

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. 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) may also be included.

Unit scope	<ul style="list-style-type: none"> • This unit addresses the sewing techniques used to sew materials used in marine application and to fit the required attachments and fixing devices • Fittings/attachments and fixing devices include: clips, press studs, buckles, eyelets, shackles, zips, reinforcing patches, straps • Suitable installation methods are used with consideration to suitability or products used in the process
Unit context	<ul style="list-style-type: none"> • Workplace health and safety includes OHS legislation, material safety management systems, hazardous substances and dangerous goods codes and safe operating procedures • Work requires individuals to demonstrate discretion, judgement and problem solving skills in the application of marine sewing techniques • Work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
Job requirements may include:	<ul style="list-style-type: none"> • required materials • threads • additional work features • shape and special requirements for the item • any required workplace documentation to be competed
Machines may include, but are not limited to:	<ul style="list-style-type: none"> • overlocker • flat bed • twin needle and walking foot
Tools and equipment may include:	<ul style="list-style-type: none"> • measuring tape • scissors

RANGE STATEMENT	
	<ul style="list-style-type: none"> • cutting blades • knives and thread
Materials to be sewn may include but are not limited to:	<ul style="list-style-type: none"> • canvas • sail materials • leather • foam-backed vinyl and upholstery fabrics
Personal protective equipment	<p>Personal protective equipment is to include that prescribed under legislation, regulations and enterprise practices and procedures. It may include:</p> <ul style="list-style-type: none"> • safety glasses/goggles • hair nets • ear muffs/plugs • gloves • footwear • protective clothing and breathing apparatus
Information and procedures	<ul style="list-style-type: none"> • Machine manufacturer specifications and operational procedures • Workplace procedures relating to the setting and operation of machines • Work instructions, including job sheets, plans, drawings and designs • Workplace procedures relating to reporting and communication

Unit Sector(s)

Unit sector	Upholstery
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Competency field

Competency field	
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Co-requisite units

Co-requisite units		