



Australian Government

Department of Education, Employment and Workplace Relations

LMTTF2018A Use canvas and sail production tools

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit covers the skills and knowledge required to safely use a range of commonly used hand and power tools in the manufacture of canvas and sail products.

Application of the Unit

Application of the Unit

This unit applies to the use of hand, electrical, air and gas energised tools on a range of canvas and sail products and equipment. Work may involve interaction with other people in the workplace including supervisors and production personnel. Work may be conducted in a variety of environments, such as:

- operational indoor workplaces
- operational outdoor workplaces
- on client site
- restricted or confined spaces
- hazardous or exposed conditions

Work may be conducted in small to large scale enterprises and may involve individual and team activities. Work may require the exercise of independence, discretion and judgement.

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 the application of skills associated with planning and organising for the safe and efficient use of tools used in canvas and sail production to ensure maximum productivity and safety.

This unit also requires the ability to apply problem solving strategies to identify any operational faults or problems. Self management skills are applied to ensure workplace and quality standards 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 tool requirements and select tools	1.1 Nature of work to be performed is determined including processes to be performed, materials to be used and working environment in which tools are to be used 1.2 Appropriate tools are selected for the work tasks to be performed 1.3 Workplace procedures and instructions are read and interpreted
2 Check tools and set for use	2.1 Tools are inspected for damage, missing components or other defects prior to use 2.2 Extension power cables and gas/air hoses for power tools are checked for knots and insulation damage and are adequately supported when used overhead 2.3 Tool bits, blades, etc. are installed in tool 2.4 Tool settings are determined and tool is adjusted or set for use
3 Prepare work area for tool use	3.1 Safe working environment for tool use is established, including elimination of solvents and other sources of flammable or explosive vapours and removal of flammable materials which might catch fire if tools likely to produce sparks or flame are used 3.2 Work with tools is planned to maximise safety and productivity 3.3 Suitable electrical power outlets, if required, are identified 3.4 Work area is cleared and cleaned to provide work table or benches free of obstructions and allow clear access to machines and equipment 3.5 Barriers or screens are used to keep other personnel at a safe distance or to shield them from sparks, arc flashes, debris, dust or noise 3.6 Suitable floor insulation or residual current devices are provided where electrical tools are to be used in conditions which could present a shock hazard 3.7 Provision for emergency shut down of tool is checked
4 Prepare work piece for tool use	4.1 Work piece is correctly mounted in, or aligned to the tool or machine to be used 4.2 Work piece is securely anchored where necessary to prevent movement
5 Use tools	5.1 Safety equipment is used in accordance with OHS practices and tools are used in accordance with industry and workplace OHS practices 5.2 Electrical tools are safely connected to power supply, gas or air hoses are safely connected to gas/air supplies 5.3 Start up and shut down procedures are safely followed when using electrical or gas operated tools 5.4 Mechanical tool settings, electrical settings and gas pressures are

ELEMENT	PERFORMANCE CRITERIA
	set
	5.5 Tools are located in safe positions when not in use
	5.6 Safety equipment is used during tool operation in accordance with OHS practices
	5.7 Tool operation is monitored and use is discontinued if abnormal operation or other problems are detected
	5.8 Knowledge of tools are applied to perform required tasks
6 Maintain and store tools and maintain work area	6.1 Tools, extension cables and hoses are cleaned and stored in accordance with industry and workplace OHS practices
	6.2 Abnormal tool operation or other problems are reported in accordance with established workplace practices
	6.3 Programmed maintenance of tools which is within the province of the operator is performed
	6.4 Work area is cleaned

Required Skills and Knowledge

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

Demonstrates knowledge of:

- hazards associated with tools using electricity, gas, or compressed air
- specific OHS requirements associated with hand tools and electrical and gas energised tools
- the range of hand, electrical, air and gas energised tools relevant to work performed in the canvas and sail industry
- principles of operating tools and equipment used in the industry and their appropriateness for particular applications
- power sources such as single phase, three phase, and weather protected outlets
- general properties and working characteristics of materials and used in the canvas and sail industry
- environmental requirements of relevant industry and workplace procedures
- general housekeeping policies and procedures
- OHS practices, including hazard identification and control measures
- quality practices
- workplace practices
- practices for recording and reporting

Demonstrates skills to:

- locate and interpret technical information about tools, processes, materials, and equipment
- select and use appropriate hand, electrical, air, and gas energised tools
- use relevant chemicals and cleaning agents and dispose of waste products
- maintain work area
- identify hazards associated with the tools and processes involved and apply all relevant safety practices
- document and transfer information
- read, interpret, and follow information on work specifications, standard operating procedures and work instructions, and other reference material
- maintain accurate records
- communicate within the workplace
- 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 for assessment and evidence required to demonstrate competency in this unit

Demonstrates skills and knowledge to:

- comply with all relevant safety requirements applying to the use of hand, electrical, air, and gas energised tools
- interpret work orders relevant to the selection and use of tools
- interpret specifications and instructions relating to the materials and equipment on which the tools are to be used
- prepare work environment for safe and effective tool use
- set up tools for safe and effective use
- shut down tools in an emergency
- perform work processes with the tools
- monitor tool operation for correct operation during use
- inspect completed work to verify correct tool operation and use
- document and communicate work related information including reporting of faults and other problems

Consistently applies skills and knowledge when:

- 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

Context and specific resources for assessment

Assessment may occur on the job or in an appropriately simulated environment and requires access to work areas, materials and equipment, and to information on workplace practices and OHS practices.

Guidance information for 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.

Materials may include

- steel
- aluminium
- bronze
- stainless steel
- wood
- plastic
- canvas

Tools may include

- hand tools such as:
- measuring equipment
- spanners
- pliers
- screwdrivers
- knives
- scissors
- hacksaws
- hammers
- chisels
- files
- pop riveting machines
- staple guns
- lifting and hoisting equipment
- air powered tools:
- drills
- air wrenches
- spray guns
- air nozzles
- buffing machines
- air compressors
- gas burning tools such as:
- oxy-acetylene welding equipment
- butane or propane torches

OHS practices	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: • 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
Electrical power tools may include	• electric drills (bench and portable) • pop riveting machines • staple guns • sanders • angle grinders • bench grinders • electric shears and knives • heat lamps • arc welders • plastic welding machines • electric winches

Unit Sector(s)

Sector	Textile Fabrication
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