



Australian Government

MSTTF2003 Use canvas and sail production tools

Release: 1

MSTTF2003 Use canvas and sail production tools

Modification History

Release 1. Supersedes and is equivalent to LMTTF2018A Use canvas and sail production tools

Application

This unit of competency 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.

This unit of competency 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:

- indoor workplaces
- outdoor workplaces
- on site

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

Pre-requisite Unit

Nil

Competency Field

Textile fabrication

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

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| | | 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 use canvas and sail production tools | 2.1 | Read and interpret workplace procedures and instructions |
| | | 2.2 | Determine nature of work to be performed, including processes, materials and working environment in which tools are to be used |
| | | 2.3 | Select appropriate tools for the work tasks to be performed |
| | | 2.4 | Check tools and set for use |
| 3 | Prepare safe work area for using tools | 3.1 | Establish safe working environment for using tools |
| | | 3.2 | Plan work with tools to maximise safety, productivity and environmental requirements |
| | | 3.3 | Eliminate solvents and other sources of flammable or explosive vapours and remove flammable materials which might catch fire if tools likely to produce sparks or flame are used |
| | | 3.4 | Identify suitable electrical power outlets, if required |
| | | 3.5 | Clear and clean work area to provide work table or benches free of obstructions and allow clear access to machines and equipment |
| | | 3.6 | Use barriers or screens to keep other personnel at a safe distance or to shield them from sparks, arc flashes, debris, dust or noise |
| | | 3.7 | Use suitable floor insulation or residual current devices where electrical tools are to be used in conditions which could present a shock hazard |
| | | 3.8 | Check emergency shutdown is provided for tool |

4	Prepare work piece	4.1	Mount work piece correctly in, or aligned to, the tool or machine to be used
		4.2	Anchor work piece securely, where necessary, to prevent movement
5	Use tools	5.1	Use safety equipment and tools in accordance with industry, WHS and workplace procedures
		5.2	Safely connect electrical tools to power supply, and gas or air hoses to gas/air supplies
		5.3	Follow start-up and shutdown procedures safely when using electrical or gas operated tools
		5.4	Set mechanical tool settings, electrical settings and gas pressures
		5.5	Locate tools in safe positions when not in use
		5.6	Monitor tool operation and discontinue use if abnormal operation or other problems are detected
		5.7	Inspect work to verify tool use meets specifications and relevant industry and workplace quality standards
6	Maintain tools and work area	6.1	Clean work area, and clean and store tools, extension cables and hoses in accordance with industry, WHS and workplace procedures
		6.2	Report abnormal tool operation or other problems in accordance with established workplace procedures
		6.3	Perform programmed maintenance of tools which is within the operator's responsibility

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
 - 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 includes:**
- the relevant industry or Australian Standards that are current at the time this unit is being undertaken

- Materials include one or more of the following:**
- steel
 - aluminium
 - bronze
 - stainless steel
 - wood
 - plastic
 - canvas

- Tools include one or more of the following:**
- hand tools:
 - 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:
 - oxy-acetylene welding equipment
 - butane or propane torches
- electrical power tools:
 - 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

WHS practices

WHS practices include hazard identification and control, risk assessment and implementation of risk reduction measures specific to the tasks described by this unit, and include one or more of the following:

- manual handling techniques
- SOPs
- PPE
- safe materials handling
- taking of rest breaks
- ergonomic arrangement of workplaces
- following marked walkways
- safe storage of equipment
- housekeeping
- reporting accidents and incidents

- environmental practices

Unit Mapping Information

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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 MSTTF2003 Use canvas and sail production tools

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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
- applying relevant standards
- complying with all relevant safety requirements applying to the use of hand tools on at least two (2) occasions
- complying with all relevant safety requirements applying to electrical, air, and gas energised tools on at least two (2) occasions
- interpreting work orders relevant to the selection and use of tools on at least five (5) occasions
- interpreting specifications and instructions relating to the materials and equipment on which the tools are to be used
- preparing work environment for safe and effective tool use, setting up tools for safe and effective use, and demonstrating emergency shutdown of tools, on at least two (2) occasions
- performing work processes according to work health and safety (WHS) and machine specifications for a range of standard tools, including at least six (6) hand tools and four (4) power tools, subject to workplace requirements
- monitoring tool operation to check correct operation during use
- inspecting completed work to verify correct tool operation and use
- documenting and communicating work-related information, including reporting of faults and other problems
- applying workplace procedures.

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
- working with materials, such as:
 - steel
 - aluminium

- bronze
- stainless steel
- wood
- plastic
- canvas
- hazards associated with tools using electricity, gas or compressed air
- specific WHS 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
- WHS practices, including hazard identification and control measures
- quality practices
- workplace procedures
- practices for recording and reporting.

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 using canvas and sail production tools, 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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