

# **MEM18001C Use hand tools**

Release: 1



## MEM18001C Use hand tools

## **Modification History**

Not Applicable

## **Unit Descriptor**

Unit descriptor	This unit covers using a range of hand tools for a variety of
	general engineering applications.

## **Application of the Unit**

1.1	
Application of the unit	Applications may include hand tools used for adjusting, dismantling, assembling and finishing of items or components, and the finishing, cutting, scraping of metallic and non-metallic material to size and shape. This includes simple tapping and threading and routine maintenance of hand tools.
	This unit should not be selected if the hand tool is dedicated to a single operation or machine and if only a machine specific/customised tool is used.
	When using hand held power tools or power tools used for hand held operations, refer to Unit MEM18002B (Use power tools/hand held operations).
	Band: A Unit Weight: 2

## Licensing/Regulatory Information

Not Applicable

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## **Pre-Requisites**

Prerequisite units	

## **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.
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#### **Elements and Performance Criteria**

ELEMENT	PERFORMANCE CRITERIA
1. Use hand tools	1.1. Hand tools are selected appropriate to the task requirements.
	1.2. Hand tools are used to produce desired outcomes to job specifications which may include finish, tension, size or shape.
	1.3. All safety requirements are adhered to before, during and after use.
	1.4.Unsafe or faulty tools are identified and marked for repair according to designated procedures before, during and after use.
	1.5. Routine maintenance of tools, including hand sharpening is undertaken according to standard operational procedures, principles and techniques.
	1.6. Hand tools are stored safely in appropriate location according to standard operational procedures and manufacturers' recommendations.

#### Required Skills and Knowledge

#### REQUIRED SKILLS AND KNOWLEDGE

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

#### Required skills

Look for evidence that confirms skills in:

- reading and following information on standard operating procedures
- following verbal instructions
- selecting hand tools appropriate to the task
- using hand tools safely
- identifying hand tool defects and marking for repair
- maintaining/sharpening hand tools using appropriate techniques
- storing hand tools in accordance with manufacturers'/standard operating procedures

#### Required knowledge

Look for evidence that confirms knowledge of:

- applications of different hand tools in a general engineering context
- common faults and/or defects in hand tools

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#### REQUIRED SKILLS AND KNOWLEDGE

- procedures for marking unsafe or faulty tools for repair
- routine maintenance requirements for a range of hand tools
- storage location and procedures for a range of hand tools
- hazards and control measures associated with using hand tools
- use and application of personal protective equipment
- safe work practices and procedures

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### **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.		
Overview of assessment  A person who demonstrates competency in this be able to use hand tools for a range of general engineering applications.		
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts.	
Context of and specific resources for assessment	This unit may be assessed on the job, off the job or a combination of both on and off the job. Where assessment occurs off the job, that is the candidate is not in productive work, then an appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate.	
	This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with using hand tools or other units requiring the exercise of the skills and knowledge covered by this unit.	
Method of assessment	Assessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways including direct observation, supervisor's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.	
Guidance information for assessment		

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### **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.

Hand tools	Hacksaws, hammers, punches, screwdrivers, sockets, wrenches, scrapers, chisels, gouges, wood planes and files of all cross-sectional shapes and types	
Job specifications	Finish, tension, size or shape etc.	
Routine maintenance	Cleaning, lubricating, tightening, simple tool repairs, hand sharpening and adjustments using engineering principles, tools, equipment and procedures	

## **Unit Sector(s)**

Unit sector	

### Co-requisite units

Co-requisite units	

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## **Competency field**

Competency field	Maintenance and diagnostics
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