



Australian Government

Department of Education, Employment and Workplace Relations

CPCCRT2002A Use roof tiling tools and equipment

Release: 1

CPCCR2002A Use roof tiling tools and equipment

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit of competency specifies the outcomes required to safely and effectively use the hand and power tools used in roof tiling.

It includes the identification, selection and use of tools for specific applications and their storage.

Application of the Unit

Application of the unit

This unit supports the attainment of skills and knowledge to use the hand and power tools required for roofing work, which includes working with others and as a member of a team.

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units

CPCCOHS2001A	Apply OHS requirements, policies and procedures in the construction industry
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Employability Skills Information

Employability skills This unit contains employability skills.

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. Plan and prepare.	<p>1.1. Work instructions, including plans, specifications, quality requirements and operational details are obtained from relevant <i>information</i>, confirmed and applied for the <i>scope of work</i> performed.</p> <p>1.2. <i>Safety (OHS)</i> requirements are followed in accordance with safety plans and policies.</p> <p>1.3. Signage and barricade requirements are identified and implemented.</p> <p>1.4. <i>Environmental requirements</i> are identified for the project in accordance with environmental plans and <i>statutory and legislative authority</i> obligations and applied.</p>
2. Select tools.	<p>2.1. <i>Tools</i> are selected consistent with needs of the job.</p> <p>2.2. Tools, including leads and hoses, are checked for tags, serviceability and safety and any faults are reported to supervisor in accordance with workplace requirements.</p> <p>2.3. Power tool guards, retaining bolts, couplings, gauges and controls are checked and maintained in accordance with manufacturer recommendations.</p> <p>2.4. Equipment is selected to hold, position or support material for hand tool application where applicable.</p> <p>2.5. Pre-operational checks, including lubricants, hydraulic fluid and water, are completed in accordance with manufacturer recommendations.</p>
3. Use tools.	<p>3.1. Power and compressed air supply are connected to work area.</p> <p>3.2. Start up and shut down procedures are performed in accordance with workplace procedures.</p> <p>3.3. Tools are safely and effectively used according to manufacturer recommendations and workplace requirements.</p> <p>3.4. Tools are safely located when not in immediate use.</p>
4. Select plant and equipment.	<p>4.1. Functions and limitations of plant and equipment used in roof tiling are identified.</p> <p>4.2. Plant and equipment are selected consistent with hazard minimisation and needs of job.</p> <p>4.3. Method of operation of plant and equipment is identified.</p> <p>4.4. Plant and equipment are checked for safety, and</p>

ELEMENT	PERFORMANCE CRITERIA
	faults are reported to supervisor.
	4.5. Requirements for guarding, cut-off switches, retaining bolts, couplings, gauges and controls are identified and checked.
	4.6. Requirements for operating and using plant and equipment are recognised and adhered to.
5. Use plant and equipment.	5.1. <i>Material</i> is located and held in position for application where applicable.
	5.2. Plant and equipment are safely and effectively used in accordance with workplace requirements.
	5.3. Plant and equipment are safely located and switched when not in immediate use.
	5.4. Plant and equipment are inspected, maintained and tagged and any faults are reported in accordance with workplace procedures.
6. Clean up.	6.1. Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations, codes of practice and job specification.
	6.2. Tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturer recommendations and standard work practices.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

Required skills for this unit are:

- communication skills to:
 - determine requirements
 - follow instructions
 - read and interpret:
 - documentation from a variety of sources
 - drawings and specifications
 - report faults

REQUIRED SKILLS AND KNOWLEDGE

- use language and concepts appropriate to cultural differences
- use and interpret non-verbal communication, such as hand signals
- identifying and accurately reporting to appropriate personnel any faults in tools, equipment or materials
- organisational skills, including the ability to plan and set out work
- teamwork skills to work with others to action tasks and relate to people from a range of cultural and ethnic backgrounds and with varying physical and mental abilities
- technological skills to:
 - use a range of mobile technology, such as two-way radio and mobile phones
 - voice and hand signals to access and understand site-specific instructions.

Required knowledge

Required knowledge for this unit is:

- characteristics and applications of roof tiling materials
- general construction terminology
- job safety analysis (JSA) and safe work method statements
- material safety data sheets (MSDS)
- materials storage and environmentally friendly waste management
- measuring and marking
- plans, drawings and specifications
- plant, tools and equipment types, characteristics, uses and limitations
- processes for the calculation of material requirements
- quality requirements
- techniques and procedures for using roof tiling tools and equipment
- workplace and equipment safety requirements.

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

This unit of competency could be assessed in the workplace or a close simulation of the workplace environment, provided that simulated or project-based assessment techniques fully replicate construction workplace conditions, materials, activities, responsibilities and procedures.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

A person who demonstrates competency in this unit must be able to provide evidence of the ability to:

- locate, interpret and apply of relevant information, standards and specifications
- comply with site safety plan and OHS legislation, regulations and codes of practice applicable to workplace operations
- comply with organisational policies and procedures, including quality requirements
- safely and effectively use tools, plant and equipment
- communicate and work effectively and safely with others
- as a minimum, follow work instructions, operating procedures and inspection practices to use the listed roof tiling tools and equipment for their appropriate application, ensuring:
 - correct selection and use of appropriate processes, tools and equipment
 - no damage to materials, tools or equipment
 - completion of all work to specification
 - compliance with regulations, standards and organisational quality procedures and processes.

Context of and specific resources for assessment

This competency is to be assessed using standard and authorised work practices, safety requirements and environmental constraints.

Assessment of essential underpinning knowledge will usually be conducted in an off-site context.

EVIDENCE GUIDE

Assessment is to comply with relevant regulatory or Australian standards' requirements.

Resource implications for assessment include:

- an induction procedure and requirement
- realistic tasks or simulated tasks covering the mandatory task requirements
- relevant specifications and work instructions
- tools and equipment appropriate to applying safe work practices
- support materials appropriate to activity
- workplace instructions relating to safe work practices and addressing hazards and emergencies
- material safety data sheets
- research resources, including industry related systems information.

Reasonable adjustments for people with disabilities must be made to assessment processes where required. This could include access to modified equipment and other physical resources, and the provision of appropriate assessment support.

Method of assessment

Assessment methods must:

- satisfy the endorsed Assessment Guidelines of the Construction, Plumbing and Services Training Package
- include direct observation of tasks in real or simulated work conditions, with questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- reinforce the integration of employability skills with workplace tasks and job roles
- confirm that competency is verified and able to be transferred to other circumstances and environments.

Validity and sufficiency of evidence requires that:

- competency will need to be demonstrated over a period of time reflecting the scope of the role and the practical requirements of the workplace

EVIDENCE GUIDE

- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice, with a decision on competency only taken at the point when the assessor has complete confidence in the person's demonstrated ability and applied knowledge
- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence.

Assessment processes and techniques should as far as is practical take into account the language, literacy and numeracy capacity of the candidate in relation to the competency being assessed.

Supplementary evidence of competency may be obtained from relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

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.

Information includes:

- diagrams or sketches
- instructions issued by authorised organisational or external personnel
- manufacturer specifications and instructions, where specified
- MSDS
- memos
- regulatory and legislative requirements

RANGE STATEMENT

pertaining to the use of roof tiling tools and equipment

- relevant Australian standards
- safe work procedures relating to the use of roof tiling tools and equipment
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.
- includes the operation of hand and power tools and equipment in roof tiling applications
- involves their identification, correct application and effective operation and storage.
- emergency procedures, including extinguishing fires, organisational first aid requirements and evacuation
- handling activities that may require the assistance of others or the use of manual or mechanical lifting devices where size, weight or other issues, such as a disability are a factor
- hazard control
- hazardous materials and substances, including cement and curing agents
- organisational first aid
- PPE prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including the conduct of operational risk assessment and treatments associated with:
 - earth leakage boxes
 - lighting
 - power cables, including overhead service trays, cables and conduits
 - restricted access barriers
 - surrounding structures
 - traffic control
 - trip hazards
 - working at heights
 - work site visitors and the public
 - working in proximity to others

Scope of work:

Safety (OHS) is to be in accordance with state and territory legislation and regulations and project safety plan and may include:

RANGE STATEMENT

- Environmental requirements* include:
- use of firefighting equipment
 - use of tools and equipment
 - workplace environmental requirements and safety.
 - clean-up management
 - dust and noise
 - stormwater management
 - vibration
 - waste management.
- Statutory and regulatory authorities* include:
- federal, state and local authorities administering the applicable Acts, regulations and codes of practice
- Tools:*
- include:
 - bedding frames
 - blowers
 - brooms
 - buckets
 - calculators
 - chisels
 - concrete mixers
 - elevators
 - embossing mallets
 - fall safety devices
 - gutter protectors
 - hammers
 - hand saws
 - high pressure water cleaners
 - ladders
 - measuring tapes and rules
 - nail bags
 - nail guns
 - pincers
 - power drills
 - power leads
 - power saws
 - shovels
 - squares
 - string and chalk lines
 - tile cutters

RANGE STATEMENT

- trowels
- may include:
 - blocks
 - breaks or cutting irons
 - guillotines
 - rippers
 - scaffolds
 - slate cutters
 - slate reefers
 - slater's hammers
 - slating knives
 - small compressors
 - small petrol or diesel engines.

Materials:

- include:
 - adhesives
 - concrete and terracotta tiles
 - fastenings and other mechanical fixings
 - flashings
 - mortar
 - sarking materials
 - timber and metal battens
- may include:
 - flexible pointing materials
 - lead
 - shingles and other hand manufactured products
 - slate.

Unit Sector(s)

Unit sector

Construction

Functional area

Functional area