



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **CPCCE2011A Use demolition tools and equipment**

**Release: 1**

## CPCCE2011A Use demolition tools and equipment

### Modification History

Not Applicable

### Unit Descriptor

**Unit descriptor** This unit of competency specifies the outcomes required to work safely and effectively using demolition tools and equipment in the conduct of demolition activities.

### Application of the Unit

**Application of the unit** This unit of competency supports the attainment of the understanding and skills to use tools and equipment in demolition activities, which may include 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
--------------	--

## 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 and operational details are obtained using relevant <i>information</i>, confirmed and applied for <i>planning and preparation</i> purposes.</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 regulatory obligations and applied.</p>
2. Identify demolition tools and equipment.	<p>2.1. Types and functions of demolition <i>tools and equipment</i> to be used in the demolition process are identified, checked for serviceability and any faults are rectified or reported prior to commencement.</p> <p>2.2. Methods of operation of demolition tools and equipment are identified from specifications, standards and manufacturers' instructions.</p> <p>2.3. Specific OHS requirements for the identified demolition tools and equipment are identified and applied.</p>
3. Use tools and equipment.	<p>3.1. Identified tools and equipment consistent with the requirements of the job, including personal protective equipment (PPE), are selected and checked for serviceability, and any faults are reported and/or rectified.</p> <p>3.2. <i>Work area is prepared</i> for the use of demolition tools and equipment.</p> <p>3.3. Pre-operational checks, including lubricants, hydraulic fluid and water, are completed in accordance with manufacturer recommendations.</p> <p>3.4. Tools and equipment are used for their intended purpose in the performance of <i>demolition tasks</i> in accordance with regulations, standards, codes of practice and workplace requirements.</p> <p>3.5. Tools and equipment are safely located when not in immediate use.</p>
4. Clean up.	<p>4.1. Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations, codes of practice and job specification.</p> <p>4.2. Tools and equipment are cleaned, checked, maintained and stored in accordance with</p>

**ELEMENT****PERFORMANCE CRITERIA**

---

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
  - enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
  - follow instructions
  - read and interpret:
    - documentation from a variety of sources
    - drawings and specifications
  - report faults
  - use language and concepts appropriate to cultural differences
  - use and interpret non-verbal communication, such as hand signals
- evaluating own actions and making judgments about performance and necessary improvements
- 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
- recognising procedures, following instructions, responding to change and contributing to workplace responsibilities, such as current work site environmental and sustainability frameworks or management systems
- teamwork skills to coordinate own 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 SKILLS AND KNOWLEDGE**

Required knowledge for this unit is:

- applications of portable power tools, hand tools and equipment applicable to demolition tasks
- general construction terminology
- hazards associated with the use of demolition tools and equipment
- job safety analysis (JSA) and safe work method statements
- material safety data sheets (MSDS)
- materials storage and environmentally friendly waste management
- measurement and calculation
- method of operation and maintenance requirements of demolition tools and equipment
- plans, drawings and specifications
- quality requirements
- techniques associated with the use of demolition tools and equipment
- types, characteristics, uses and limitations of plant, 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 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
- communicate and work effectively and safely with others
- follow work instructions, operating procedures and inspection practices to safely and effectively use the listed demolition tools and equipment for their appropriate application, ensuring:
  - there is no damage to tools or equipment
  - all work is completed 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.

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

## EVIDENCE GUIDE

---

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
- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances



## EVIDENCE GUIDE

---

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 pertaining to the use of demolition tools and equipment
- relevant Australian standards

## RANGE STATEMENT

---

***Planning and preparation*** include:

- safe work procedures relating to the use of demolition tools and equipment
- signage
- verbal, written and graphical instructions
- work bulletins
- work schedules, plans and specifications.
- assessment of conditions and hazards
- determination of work requirements and safety plans and policies
- equipment defect identification
- identification, selection, preparation and application of demolition tools and equipment for demolition tasks
- work site inspection.
- 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 asbestos, lead-based paints, dust, pesticide residue, animal residue and the safe handling or quarantining procedures for each
- 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
  - equipment tagging
  - fall protection
  - identification and preparation of access and egress points
  - identification of equipment guarding and cut-off switches
  - lighting
  - power cables, including overhead service trays, cables and conduits

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

## RANGE STATEMENT

---

- restricted access barriers
- surrounding structures
- traffic control
- trip hazards
- work site visitors and the public
- working at heights
- working in confined spaces
- working in proximity to others
- use of firefighting equipment
- use of tools and equipment
- workplace environmental requirements and safety.

*Environmental requirements* include:

- clean-up management
- dust and noise
- sedimentation control
- vibration
- waste management.

*Tools and equipment:*

- include:
  - angle grinders
  - barricades
  - bars (crow and pinch)
  - bolt cutters
  - brooms
  - chisels
  - concrete saws
  - electric testers
  - hacksaws
  - hammers
  - handsaws
  - picks and mattocks
  - pliers
  - pneumatic tools
  - power drills and saws
  - quick cut saws
  - safety and fall prevention equipment
  - scaffolds
  - shovels and spades
  - signs

## RANGE STATEMENT

---

***Preparation of work areas*** includes:

- sledge hammers
- spanners and wrenches.
- communication with those who may be affected by the demolition task
- erection of scaffolding
- identification of positions of hoses and cables clear of hazards
- installation of supports and bracing
- location of signage and barricades
- provision for site safety.

***Demolition tasks*** may be performed:

- at ground level
- at height
- in a confined space
- on a new construction site or an existing structure being renovated or extended which involves the complete or partial removal of components
- over water
- under water
- underground.

## Unit Sector(s)

**Unit sector**                      Construction

## Co-requisite units

**Co-requisite units**              Nil

## **Functional area**

### **Functional area**