



Australian Government

CPCCCO2022A Use and maintain concreting plant, tools and equipment

Release 1

CPCCCO2022A Use and maintain concreting plant, tools and equipment

Modification History

This version first released with CPC08 Construction, Plumbing and Services Training Package Version 9.

- Changes to unit title, elements, performance criteria, range statement, required skills, methods of assessment, guidance information for assessment
- Range of other minor editorial changes

Not equivalent to CPCCCO2012A Use concreting tools and equipment

Unit Descriptor

This unit of competency specifies the outcomes required to safely select and use concreting plant, tools and equipment for the completion of general concreting tasks.

The unit includes the use of hand tools, power tools, small plant and equipment. It may also include working with others and as a member of a team.

Application of the Unit

This unit of competency supports the role of those working with concrete on residential, commercial and civil construction sites.

Licensing/Regulatory Information

Licensing, legislative, regulatory or certification requirements apply to concreting work in different states and territories. Candidates are advised to consult with the relevant regulatory authorities.

Pre-Requisites

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

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 required performance needed to demonstrate achievement of the element. Where ***bold italicised*** text is used, further information is detailed in the required skills and knowledge and/or the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

- | | | |
|---|---------------------------------|---|
| 1 | Plan and prepare. | <p>1.1 Work instructions, <i>work health and safety (WHS) requirements</i> and other <i>information</i> relevant to the work are identified, confirmed with <i>relevant personnel</i> and applied to <i>planning and preparation</i>.</p> <p>1.2 <i>Plant, tools and equipment</i> consistent with job requirements are selected and <i>checked for serviceability</i>, and faults are rectified and reported before work begins.</p> <p>1.3 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.</p> <p>1.4 Material quantity requirements are identified, calculated and confirmed according to plans, specifications and <i>quality requirements</i>.</p> <p>1.5 <i>Environmental requirements</i> are identified for the project according to environmental plans and regulatory requirements.</p> |
| 2 | Use plant, tools and equipment. | <p>2.1 Hand tools are used that are appropriate to the task and materials according to WHS requirements.</p> <p>2.2 Plant, tools and equipment are safely and effectively used according to manufacturer recommendations and WHS requirements.</p> |

- 3 Clean up.
 - 3.1 Work area is cleared and materials disposed of, reused or recycled according to regulations, codes of practice and job specifications.
 - 3.2 Plant, tools and equipment are cleaned, checked, ***maintained*** and stored according to manufacturer recommendations and standard work practices.

Required Skills and Knowledge

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

Required skills

- learning skills to respond to change, such as differences in work site, and environmental and quality requirements
- numeracy skills to:
 - calculate and confirm correct quantities of materials for work tasks
 - check levels of lubricants in tools
- oral communication skills to:
 - enable clear and direct communication regarding work instructions, using questioning to identify and confirm requirements, and share information
 - report work site hazards to appropriate personnel, including faults in tools, equipment or materials
 - use language and concepts appropriate to cultural differences
- reading skills to:
 - interpret documentation, including specifications
 - interpret manufacturer instructions for safely handling tools and equipment
 - understand written instructions, procedures and signage
- writing skills to complete equipment fault forms

Required knowledge

- environmentally friendly waste management practices applicable to the task
- general construction terminology
- processes for calculating material requirements
- quality requirements relating to each stage of the concreting process
- processes for the storage of plant, tools, equipment and material
- properties of concrete
- requirements of legislation, regulations and codes of practice that apply to the use and maintenance of concreting plant, tools and equipment, including WHS requirements
- types, location and use of relevant safety information:
 - job safety analyses (JSA) and safe work method statements (SWMS)
 - safety data sheets (SDS)
 - safety manuals and instructions for plant, tools and equipment
 - safety signage
 - environmental and work site safety plans
- types, uses and limitations of concreting plant, tools and equipment, including when to

use particular items for different stages of concreting tasks

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 by observation of correct identification, use and maintenance of concreting plant, tools and equipment appropriate to requirements 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 should demonstrate the ability to:

- identify, select, use and maintain a range of concreting plant, tools and equipment in a minimum of two different work environments or conditions
- locate, interpret and apply relevant information, including manufacturer requirements for the appropriate use and maintenance of plant, tools and equipment
- comply with site safety plan and procedures
- comply with organisational policies and procedures relating to using and maintaining plant, tools and equipment while maintaining quality requirements outlined in job specifications
- safely and effectively operate and use plant, tools and equipment
- communicate and work effectively and safely with others.

Context of and specific resources for assessment

Assessment of this unit:

- must be in the context of the work environment
- may be conducted in an off-site context, provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills
- must meet relevant compliance requirements.

Resource implications for assessment include:

- an induction procedure
- realistic tasks or simulated tasks covering the mandatory task requirements
- plant, 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

- relevant information, such as safety data sheets.

Method of assessment

Assessment for this unit must verify the practical application of the required skills and knowledge, using a combination of the following methods:

- direct observation of tasks in real or simulated work conditions
- questioning to confirm the ability to consistently identify and correctly interpret the essential underpinning knowledge required for practical application
- review of relevant authenticated documentation from third parties, such as existing supervisors, team leaders or specialist training staff.

Guidance information for assessment

This unit could be assessed on its own or in combination with other units relevant to the job function, for example:

- CPCCCO3041A Place concrete
- CPCCCO3042A Finish concrete
- CPCCCO3043A Cure concrete.

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.

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.

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.

Work health and safety requirements must comply with state and territory legislation and regulations and project safety plan, and may

- assistance of others or the use of manual or mechanical lifting devices with handling activities where size, weight or other issues, such as disability, are a factor
- availability of SDS for substances to be used
- emergency procedures, including extinguishing fires, organisational first aid requirements, and evacuation

include:

- procedures
- hazard control
- hazardous materials and substances
- personal protective equipment (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
 - signage and 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
 - working outdoors in warm climates
- use of firefighting equipment
- use of plant, tools and equipment
- workplace environmental requirements and safety.

Information may include:

- instructions issued by authorised organisational and external personnel
- memos
- regulatory and legislative requirements relating to using concreting plant, tools and equipment, including Australian standards
- safe work procedures relating to using concreting plant, tools and equipment
- SDS for substances to be used
- signage
- verbal, written and diagrammatic instructions, including manufacturer specifications and instructions where specified
- work bulletins
- work schedules, plans and specifications.

Relevant personnel may include:

- client
- colleague
- project manager
- supervisor.

Planning and

- inspecting work sites and assessing conditions and hazards

preparation must include:

- determining work requirements and safety plans and procedures
- identifying and rectifying equipment defects.

Plant, tools and equipment may include:

- hand tools, including:
 - bolt cutters
 - crow bars
 - cutting knives
 - edging tools
 - floats
 - grinders
 - hammers
 - jointers
 - kneel boards
 - levelling equipment
 - long handled shovels
 - measuring tapes
 - nail bags
 - picks
 - pinch bars
 - pliers
 - rakes
 - sledge hammers
 - steel fixing reels
 - string lines
 - wire brushes
- screeds:
 - air or petrol driven
 - laser
 - magnesium
 - mechanical
 - rolling
- trowels:
 - frezno
 - magnesium trowels
 - ride-on trowelling machine with pans or blades
 - steel trowels
 - stick trowels
 - walk behind trowels
- power tools:
 - 240v power supplied electrically operated portable and

	static power tools and leads
	• plant and equipment: • compressors • elevated work platforms (EWPs) • scissor lifts • vibrators.
Checked for serviceability includes ensuring:	• lubricants, hydraulic fluid and water are checked according to manufacturer recommendations • power tool guards, retaining bolts, couplings, gauges and controls are checked and maintained according to manufacturer recommendations • tools, leads and hoses are checked for tags, serviceability and safety, and faults are reported.
Quality requirements must include:	• internal organisational quality policy and standards • manufacturer specifications, where specified • relevant regulations and Australian standards • workplace operations and procedures.
Environmental requirements may include:	• clean-up management • dust and noise control • stormwater management • vibration management • waste management.
Maintenance must be appropriate to the tool, plant and equipment and include:	• cleaning • fault checking and rectification or referral to appropriate person • lubrication • sharpening.

Unit Sector(s)

Not applicable.

Custom Content Section

Not applicable.