Unit of Competency CPCCCO2013 Carry out concreting to simple forms

Application

This unit of competency specifies the skills and knowledge required to safely install formwork, reinforcement and place and finish concrete for the construction of minor slabs, pathways and other minor works to a specified design finish, meeting all relevant requirements of the National Construction Code (NCC), Australian Standards, work health and safety (WHS), and Commonwealth and state or territory legislation.

The unit is suitable for those with basic skills and knowledge undertaking routine work tasks under the direction of more experienced workers.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of CPCCWHS1001 *Prepare to work safely in the construction industry* meets this requirement.

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

Prerequisite Unit

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry.

Elements and Performance Criteria

1. Plan and prepare.	1.1	Read and interpret work instructions and plan sequence of work.
	1.2	Plan all work to comply with laws and regulations, the National Construction Code (NCC), Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications, workplace requirements, drawings and specifications.
	1.3	Select tools and equipment, check for serviceability and report any faults.
	1.4	Select and use personal protective equipment (PPE) for each part of the task.
	1.5	Inspect work site, locate services, assess hazards and apply risk controls, including required signage and barricades.
	1.6	Select materials required for task, calculate quantities, handle safely and prepare and position ready for use.
2. Erect simple formwork.	2.1	Prepare substrate.
	2.2	Review formwork design from drawings.
	2.3	Erect formwork.
	2.4	Install vapour barrier.
3. Place and tie reinforcement.	3.1	Handle, cut and position reinforcing components.
	3.2	Position reinforcing bars and mesh.
	3.3	Position bar chairs and spacers with minimum edge cover.
4. Place concrete.	4.1	Clean formwork or excavation of excess material and debris before concrete placement.
	4.2	Transport concrete by wheelbarrow.
	4.3	Place concrete in formwork to specified depth.

	4.4	Screed concrete to the alignment of formwork and specified datums.
	4.5	Finish surface of concrete to specifications.
5. Strip simple formwork.	5.1	Denail timber components following stripping of formwork.
	5.2	Clean and stack components and store for reuse or bundle for removal.
	5.3	Remove formwork components from site.
6. Clean up.	6.1	Clean up, meeting all legislative and workplace requirements for safety, waste disposal, materials handling and protection of the environment.
	6.2	Check, maintain and store tools and equipment and report any faults.

Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and equivalent to CPCCCO2013A Carry out concreting to simple forms.

Links

Companion Volume Implementation Guide:
https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad

Assessment Requirements for CPCCCO2013 Carry out concreting to simple forms

Performance Evidence

To demonstrate competency, a candidate must satisfy all the elements, performance criteria and foundation skills of this unit by carrying out concreting to a simple form slab of at least 1 square metre and 100 mm in depth by:

- preparing substrate
- erecting formwork
- cutting, placing and tying reinforcement
- placing and hand-screeding concrete to the required finished level and job specification.

All work must be planned and performed using appropriate tools and equipment to the standard required in the workplace and must comply with laws and regulations, the National Construction Code (NCC), Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications, workplace requirements, drawings and specifications.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- compliance requirements of the National Construction Code and Australian Standards relevant to concreting to simple forms
- workplace quality policies and standards relevant to concreting to simple forms
- safety requirements for concreting to simple forms
- types and uses of tools and equipment required for concreting to simple forms
- uses of concreting materials, including:
  - bar chairs
  - bracing
  - edge form and boards
  - fabric sheet mesh
  - pegs
  - spacers
  - reinforcing bars
  - vapour barriers
- concreting techniques, including:
  - placing
  - screeding
  - finishing
  - floating
- simple forms of concrete, including:
  - beam thickeners
  - channels
  - garden edges

    - pathways
    - post holes
    - simple concrete aprons and slabs
- finishing, including:
    - broomed
    - trowelled
    - trowelling machine finish
    - wood-floated
- properties and use of concrete relevant to concreting to simple forms, including:
    - uses and limitations at differing strength levels
    - ingredients and proportions
    - maintaining design strength during placement
    - mixing techniques
    - curing techniques
    - vibrating and over-vibration
- levelling techniques for concreting to simple forms
- materials storage and environmentally friendly waste management
- plans, drawings and specifications for concreting to simple forms
- processes for the calculation of material requirements for concreting to simple forms, including volume of concrete
- quality requirements for concreting to simple forms
- simple formwork and reinforcing componentry.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Links

Companion Volume Implementation Guide:
https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad