



Australian Government

CPCCCO2014 Carry out concrete work

Release: 2

CPCCCO2014 Carry out concrete work

Modification History

- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
Correction to Foundation Skills.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCCCO2014A Carry out concrete work.
Updated to meet the Standards for Training Packages.

Application

This unit of competency specifies the skills and knowledge required to carry out concreting work on general construction projects for the construction of in situ reinforced concrete structures, such as slabs and other common concrete works.

It includes setting-out, reinforcing, erecting and dismantling formwork, and placing, finishing and curing concrete.

The unit supports workers to use the tools, equipment and materials to carry out concrete work, working as members of a team.

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

Pre-requisite Unit

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

Unit Sector

Construction

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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| 1 Determine requirements to carry-out concrete | 1.1 Review and clarify concrete work task. |
| | 1.2 Review task specifications, and check to make sure they |

work.		are in accordance with legislation, regulations and codes of practice.
	1.3	Review work health and safety (WHS) requirements for the task in accordance with safety plans and policies.
	1.4	Identify safety signage and barricade requirements.
	1.5	Review environmental requirements for the task in accordance with environmental plans and legislative requirements.
	1.6	Determine plant, tools, equipment and formwork components and materials required to carry out task.
	1.7	Calculate materials quantities.
	1.8	Determine location of steel reinforcement and formwork from drawings and reinforcement schedule.
2 Prepare to carry-out concrete work.	2.1	Erect identified safety signage and barricade requirements, and fit personal protective equipment (PPE).
	2.2	Obtain, safely handle, locate and prepare materials.
	2.3	Obtain plant, tools, equipment and formwork components and materials, check for serviceability and rectify or report any faults
	2.4	Check reinforcement against reinforcement drawings and specifications.
	2.5	Select fixing and fasteners.
3 Set out for concrete work.	3.1	Set string lines accurately from existing pegs.
	3.2	Check grades to ensure correct fall.
	3.3	Protect surfaces to prevent damage.
4 Construct and install reinforcement for	4.1	Cut and bend reinforcing fabric and bars in accordance with project drawings and specifications.

concrete work.	4.2	Tie and fix fabric and bars to configuration from project drawings and specifications.
	4.3	Attach stiffening rods to panels as required to facilitate handling.
	4.4	Locate reinforcement material in formwork and place on bar chairs or spacers in accordance with drawings, noting clearance from formwork.
	4.5	Locate and secure cast-in items.
5 Erect formwork for concrete work.	5.1	Clear work area and prepare surface for safe erection of formwork.
	5.2	Set out formwork to requirements of drawings and specifications.
	5.3	Assemble and erect formwork to specifications.
	5.4	Remove debris, sawdust and other waste material from formwork.
	5.5	Apply form release agent in accordance with manufacturers' specifications.
6 Carry out concrete work.	6.1	Use correct manual handling techniques with wheelbarrow to transport concrete and to discharge into formwork.
	6.2	Ensure control of discharge of concrete from concrete pump line and chute into formwork.
	6.3	Place concrete in accordance with requirements and screed to specified levels and grades.
	6.4	Compact concrete to specification using immersion vibrator or other specified method.
	6.5	Finish and cure concrete in accordance with specifications.
	6.6	Position and install control joints to specification and to current Australian Standard and codes.
	6.7	Position dowel joints in accordance with specification.

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| | 6.8 | Ensure concrete surface is adequately covered and protected. |
| 7 Strip formwork from concrete work. | 7.1 | Carefully remove edge boxing and braces in sequence. |
| | 7.2 | De-nail, clean and store timber components. |
| | 7.3 | Remove, clean, oil and store steel components. |
| | 7.4 | Discard damaged formwork components after stripping. |
| | 7.5 | Clean screens safely before movement. |
| 8 Clean up after completing concrete work. | 8.1 | Clear work area and dispose of, reuse or recycle materials in accordance with legislation, regulations, codes of practice and task requirements. |
| | 8.2 | Clean, check, maintain and store plant, tools and equipment in accordance with manufacturers' specifications and workplace requirements. |

Foundation Skills

A person demonstrating competency in this unit must have the following language, literacy, numeracy and employment skills:

- reading skills to:
 - interpret task documentation, including drawings, specifications and plans
 - review safety plans and policies and environmental plans
 - understand written instructions, procedures and signs
 - interpret manufacturers' specifications and workplace requirements
 - interpret legislative requirements including those of regulatory authorities, Australian standards and the National Construction Code (NCC)
- numeracy skills to:
 - calculate quantities of materials
 - calculate formwork and fixing requirements
 - set out for concrete work
- communication and teamwork skills to:
 - determine requirements

- enable clear and direct communication, using questioning to identify and confirm requirements, share information, listen and understand
- follow instructions
- identify and accurately report any faults
- use and interpret non-verbal communication, such as hand signals

Unit Mapping Information

Supersedes and is equivalent to CPCCCO2014A Carry out concrete work

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>