



Australian Government

CPCCON3035 Determine concrete supply requirements

Release: 2

CPCCON3035 Determine concrete supply requirements

Modification History

- Release 2 Updated reference to general construction induction training program.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCCCO3035 Assess and specify concrete supply requirements.

Application

This unit of competency specifies the skills and knowledge required to determine concrete supply requirements for different areas and features of planned concreting work. It includes identifying required concrete properties, volumes and costs from site and project documentation, and scheduling delivery.

A person who has achieved this unit of competency would be expected to take responsibility for organising and completing these tasks with a high degree of self-direction.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in some states and territories. For further information, check with the relevant regulatory authority.

Completion of the general construction induction training program, specified in the Safe Work Australia model *Code of Practice: Construction Work*, is required by anyone carrying out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

Pre-requisite Unit

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

Unit Sector

Concreting

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 | Assess site to identify | 1.1 | Review site information to determine general size and |
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concrete supply requirements.		nature of planned concreting work.
	1.2	Read project documentation to identify required concrete materials for each concreting area and feature.
	1.3	Identify delivery method for concrete supply at different locations and heights and implications for required concrete material properties.
2 Identify and itemise required concrete properties.	2.1	Identify strength grade designation of concrete supply for different areas or features of concrete work from project documentation and consultation with relevant persons.
	2.2	Identify variable components of, and additives to concrete mix for different areas or features of concrete work from project documentation and consultation with relevant persons.
	2.3	Identify concrete specifications to be met at on-site delivery from project documentation and consultation with relevant personnel.
	2.4	Itemise concrete supply requirements for each area and feature in accordance with specifications for concreting work, relevant Australian Standards and workplace requirements.
3 Calculate and document concrete volumes and supply costs.	3.1	Identify dimensions of each area and feature of concreting work from site drawings and specifications.
	3.2	Calculate and document required concrete volumes for each area and feature in accordance with specifications for concreting work and workplace requirements.
	3.3	Calculate and document total volumes of concrete supply for areas and features requiring identical properties.
	3.4	Estimate and document total cost of concrete supply in accordance with workplace requirements.
4 Schedule concrete delivery.	4.1	Identify concrete delivery locations and site access and egress details in consultation with relevant persons.
	4.2	Review project timelines and sequencing of work and

- calculate and document concrete delivery schedule to ensure continuous and timely supply.
- 4.3 Prepare supplier specifications for volumes of different concrete mixes.
 - 4.4 Confirm delivery schedule with relevant persons, document and finalise for inclusion with concrete specifications.
- 5 Finalise specifications for concrete supply.
- 5.1 Check specifications for concrete supply to confirm accuracy of concrete mix details for different areas or features.
 - 5.2 Check individual area, feature dimensions and concrete supply volume calculations to confirm accuracy.
 - 5.3 Check total volumes of concrete supply for areas and features requiring identical properties and confirm accuracy.
 - 5.4 Consult with relevant persons to obtain feedback on specifications and make required adjustments in accordance with workplace requirements.
 - 5.5 Complete supplier specifications in accordance with workplace requirements.
 - 5.6 Place concrete order with supplier including precise detail of delivery schedule and confirm order acceptance in accordance with workplace requirements.

Foundation Skills

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

Unit Mapping Information

Supersedes and is equivalent to CPCCCO3035 Assess and specify concrete supply requirements.

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>

Assessment Requirements for CPCCON3035 Determine concrete supply requirements

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by determining concrete supply requirements for three different concreting projects.

Knowledge Evidence

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

- concrete composition including types and application of cement, aggregate and additives
- concrete delivery methods and their effects on concrete material properties
- concrete delivery scheduling considerations:
 - additives
 - consideration for drying shrinkage requirements
 - megapascals (MPa)
 - site access point
 - time of delivery
 - volume
- content of concrete supply specifications
- processes for ordering correct slump for application
- processes for reviewing project plans and specifications to identify concrete supply requirements
- requirements of Australian Standards and the National Construction Code (NCC) relevant to concrete supply specifications
- types of concrete materials:
 - normal class with strength grades in the range N20 to N50
 - special class with strength grades in the range S20 to S100
- workplace requirements for determining concrete supply requirements:
 - documenting and checking supply requirements

- quality
- reporting problems
- scheduling deliveries and placing orders.

Assessment Conditions

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

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to documentation, specifications and equipment required to achieve the performance evidence.

Links

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