



Australian Government

CPCCON3053 Slump-test concrete

Release: 2

CPCCON3053 Slump-test concrete

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 CPCCCO3053 Slump test concrete. |

Application

This unit of competency specifies the skills and knowledge required to slump-test concrete to ensure that the mix is workable and complies with the delivery docket and specified order. It includes sampling and slump-testing supplied concrete.

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

Licensing, legislative, regulatory or certification requirements may 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. |
|--|---|
| 1 Plan and prepare to slump-test concrete. | 1.1 Interpret concrete specifications and clarify slump requirements in consultation with relevant persons. |

- 1.2 Plan work tasks to comply with relevant legislation, regulations, standards, codes, work health and safety (WHS), environmental and workplace requirements.
 - 1.3 Select tools and equipment for slump-testing, check for serviceability and rectify or report any faults.
 - 1.4 Select and fit required personal protective equipment (PPE).
 - 1.5 Inspect worksite, identify hazards, assess risks and apply risk controls, including required signage and barricades.
 - 1.6 Clean slumping cone in preparation for slump testing.
- 2 Conduct slump test.
 - 2.1 Take sample of concrete in accordance with relevant Australian Standard and test for consistency, directly from the delivery truck and after discharge of initial 0.2 cubic metres.
 - 2.2 Level off slumping cone and clear surplus concrete from steel plate and slumping cone.
 - 2.3 Raise slumping cone without moving sample.
 - 2.4 Measure sample for conformity with tolerance levels and carry out re-sampling when sample is outside tolerance.
 - 2.5 Record collapsed or sheared samples and communicate results to relevant persons.
- 3 Clean up.
 - 3.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.
 - 3.2 Clean, check, maintain and store tools and equipment in accordance with manufacturer and 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 CPCCCO3053 Slump test concrete.

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 CPCCON3053 Slump-test concrete

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by slump-testing two different concrete samples to determine if the mix is workable and complies with the delivery docket and specified order:

- 80 slump plus or minus 15
- 100 slump plus or minus 20.

Knowledge Evidence

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

- compliance requirements of legislation, regulations, codes and Australian Standards relevant to slump-testing:
 - environmental protection and waste disposal
 - methods of testing concrete in accordance with the current Australian Standard for determining properties related to the consistency of concrete – slump flow, T500 and J-ring test
 - work health and safety (WHS)
- health risks associated with silica dust exposure
- purpose and importance of slump-testing and the impact to concrete strength and durability of adding water on site:
 - drying, shrinkage
 - early age strength
 - density
 - cracking
 - discolouration
- specifications used to interpret slump tolerance levels and conformance
- techniques for conducting slump tests
- tools and equipment used for slump-testing concrete:

- bullet-nosed rod (600 mm x 16 mm)
- sampling scoops
- standard slump cones
- steel rule
- steel slump plate (500 mm x 500 mm)
- steel rod
- workplace requirements for slump-testing concrete:
 - cleaning up the work area
 - maintaining and storing tools and equipment
 - quality
 - reporting problems
 - safety requirements, including personal protective equipment (PPE).

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, materials, tools and equipment required to achieve the performance criteria and performance evidence.

Links

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