

Draft 0.1

This is our work-in-progress update to CPCCCO3053 Slump test concrete:
<https://training.gov.au/Training/Details/CPCCCO3053>.

We are working with industry experts to ensure the updated unit:

- meets current and anticipated industry needs
- complies with current Standards for Training Packages
- is written in clear understandable English.

Information on our training package review and development process is available here:
<http://www.artibus.com.au/project-stage>.

Summary of changes from current endorsed unit:

- code changed to comply with policy for NSSC endorsement required changes to units
- application modified
- elements and PCs modified to better articulate requirements
- notifying results moved into element 2 since element 3 is about cleaning up
- performance evidence modified to clarify requirements, ie two different samples (rather than two different types of concrete)
- new knowledge points:
 - purpose and importance of slump testing and the impact on concrete grade and strength of adding water on site without prior instructions from supplier
 - specifications used to interpret slump tolerance levels and conformance requirements
- deleted knowledge point about tools, equipment and materials used for high performance concreting – not relevant to unit
- assessment conditions: standard wording changed and modified requirement for candidates

Unit of Competency

CPCCON3053 Slump test concrete

Modification history

Release	Comments
1	Supersedes and equivalent to CPCCCO3053A Slump-test concrete. The unit of competency was updated to the Standards for Training Packages 2012. This version first released with CPC Construction, Plumbing and Services Training Package Version 4.0.
2	Supersedes and equivalent to CPCCCO3053 Slump test concrete. This version first released with CPC Construction, Plumbing and Services Training Package Version 6.0.

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 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.

Prerequisite Unit

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

Unit Sector

Concreting

Elements and Performance Criteria

1. Plan and prepare to slump-test concrete.	<ul style="list-style-type: none">1.1 Interpret concrete specifications and clarify slump requirements in consultation with relevant persons.1.2 Plan all work to comply with relevant legislation, regulations, standards, codes, work health and safety, 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 personal protective equipment appropriate for work activities.1.5 Inspect work site, assess hazards and apply risk controls including required signage and barricades.1.6 Clean slumping cone in preparation for slump testing.
2. Conduct slump test.	<ul style="list-style-type: none">2.1 Take sample of concrete in accordance with Australian Standard requirements 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.

	<p>2.4 Measure sample for conformity with tolerance levels and carry out resampling if sample is outside tolerance.</p> <p>2.5 Record collapsed or sheared samples and communicate results to relevant persons.</p>
3. Clean up.	<p>3.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.</p> <p>3.2 Clean, check, maintain and store tools and equipment in accordance with manufacturers' instructions and workplace requirements.</p>

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 Volume Implementation Guide:

<https://vetnet.education.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:

- purpose and importance of slump testing and the impact on concrete grade and strength of adding water on site without prior instructions from supplier
- requirements of Australian Standards and the National Construction Code related to slump testing
- requirements of Commonwealth and state or territory work health and safety and environmental legislation and regulations relevant to slump-testing concrete:
 - hazard identification and risk control
 - hazardous material and waste disposal
 - job safety analyses
 - personal protective equipment
 - safety data sheets
 - safe work method statements
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades
- specifications used to interpret slump tolerance levels and conformance requirements
- 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
 - maintaining and storing tools and equipment

- quality
- reporting problems.

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 evidence.

Links

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