



Australian Government

CPCCCO3053 Slump test concrete

Release: 1

CPCCCO3053 Slump test concrete

Modification History

Release 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.

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 concrete supplied for use on residential, commercial and civil construction sites.

It applies to concreters working as members of a team with at least a moderate degree of autonomy. They would be expected to complete routine activities without close supervision.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in all states and territories except Tasmania. Relevant state and territory regulatory authorities should be consulted to confirm these requirements.

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.
1. Plan and prepare to slump-test concrete.	1.1 Review and clarify task to slump-test concrete. 1.2 Review task specifications and check to make sure they 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 Review environmental requirements for the task in

	accordance with environmental plans and legislative requirements. 1.5 Select plant, tools and equipment, check for serviceability and rectify or report any faults. 1.6 Clean standard slumping cone in preparation for slump testing.
2. Conduct slump test.	2.1 Fit personal protective equipment (PPE). 2.2 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. 2.3 Level-off slumping cone and clear surplus concrete from steel plate and slumping cone. 2.4 Raise slumping cone without moving the sample. 2.5 Measure sample for conformity with tolerance levels and carry out resampling if sample is outside tolerance. 2.6 Record collapsed or sheared samples.
3. Clean up after conducting slump test.	3.1 Clean, check, maintain and store tools and equipment in accordance with manufacturers' specifications and workplace requirements. 3.2 Apply work completion procedures and notify nominated personnel that testing is completed.

Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria.

- oral communication skills to:
 - use questioning to identify and confirm requirements
 - discuss cause of problems
 - report work site hazards, including faults in tools, equipment and materials.

Unit Mapping Information

Supersedes and is equivalent to CPCCCO3053A 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 CPCCCO3053 Slump test concrete

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Performance Evidence

To demonstrate competency in this unit, a person must slump-test two different types of concrete for consistency to determine if the mix is workable and complies with the delivery docket and specified order. Types of concrete tested must include:

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

In doing this, the person must meet the performance criteria for this unit.

Knowledge Evidence

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

- jurisdictional work health and safety (WHS) and environmental legislation and regulations relating to conducting slump tests, including:
 - job safety analyses (JSAs)
 - safe work method statements (SWMSs)
 - safety data sheets (SDSs)
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades
 - personal protective equipment (PPE)
 - environmental and work site safety plans
- requirements of Australian Standards and the National Construction Code (NCC) relating to conducting slump tests
- workplace requirements for all aspects of conducting slump tests, including interpreting work orders and reporting problems
- tools and equipment for conducting slump tests, including:
 - 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

- types, characteristics, uses and limitations of tools, equipment and materials required for carrying out high performance concreting, including:
 - safe operating procedures
 - operational, maintenance and basic diagnostic procedures
 - workplace and equipment safety requirements
- techniques for conducting slump tests
- quality requirements relevant to conducting slump tests.

Assessment Conditions

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

Assessment of performance must be undertaken in the workplace or in a simulated workplace environment. Tasks are to be performed to the level of proficiency and within the time limits expected in a workplace.

Assessors are responsible for ensuring that the person demonstrating competency has access to:

- work sites and specifications for conducting slump tests
- appropriate documents, materials, tools, equipment and PPE currently used in industry
- requirements of appropriate sections of legislation and regulations
- relevant workplace policies and procedures.

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