



Australian Government

Assessment Requirements for CPCCON3046 Repair and rectify concrete

Release: 2

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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 CPCCCO3046 Repair and rectify concrete.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by following manufacturer or engineer specifications to repair and rectify defects in a minimum of one square metre of concrete for each of the following:

- three types of defects selected from the list below:
 - cracks less than 2 millimetres (mm) in width
 - broken edge off concrete
 - effects of dusting
 - damaged or blistered horizontal concrete
 - damage to vertical elements requiring feather coat to repair
 - floor that has been screeded out of tolerance and requires self-levelling compound to repair
- one type of defect selected from the list below:
 - a live or dormant crack of between 2 mm and 10 mm in width
 - damaged concrete that needs to be cut out and replaced.

Knowledge Evidence

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

- compliance requirements of legislation, regulations and Australian Standards relevant to concrete repair and rectification tasks:
 - environmental protection and waste disposal
 - specified tolerances
 - work health and safety (WHS)
- common defects in concrete and associated repair or rectification techniques and materials:

- bonded toppings failure
- cracks including wet, live and dormant
- damaged or blistered concrete
- effects of dusting
- existing concrete toppings failure
- levelling failure
- non-bonding of new to old interfaces
- non-compliant surfaces
- oversized or undersized slabs
- subsidence
- correct techniques for vibrating concrete including correct mixes for vertical elements
- correct positioning of reinforcement where applicable for different repair products including repair material bond to substrate, bonding to reinforcement and cover
- dust suppression methods to be used when repairing or rectifying concrete
- health risks associated with silica dust exposure
- possible causes of defects in concrete including chemical and physical influences:
 - cement hydration process
 - climate effects
 - concrete placement, finishing and curing
- types and purpose of concrete additives
- types, characteristics, uses and limitations of tools, equipment and materials used when repairing and rectifying concrete
- workplace requirements for repairing and rectifying concrete:
 - cleaning up the work area
 - documentation and reporting
 - maintaining and storing tools and equipment
 - quality
 - 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, work sites, materials, tools and equipment required to achieve the performance evidence.

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>