



Australian Government

Assessment Requirements for CPCPRE2004 Caulk prefabricated concrete elements

Release: 1

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Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 9.0.

Newly created unit.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by:

- caulking a 20 mm nominal gap between two prefabricated concrete elements, for at least 3 m.

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 joint caulking of concrete prefabricated elements, including:
 - environmental protection and waste disposal
 - work health and safety (WHS) regulations, including:
 - use of personal protective equipment (PPE) as specified on the safety data sheet (SDS)
 - risk when working at heights/on ladders
 - fall protection
 - drop zones
 - hazardous substances
 - safe manual handling techniques
 - respiratory crystalline silica
- detrimental effect of water addition to concrete properties
- precautions that should be taken to minimise any potential adverse effects when finishing concrete
- caulk manufacturer technical data sheet
- types, characteristics and purposes of construction drawings to confirm:
 - caulking thickness
 - fire rating requirements
 - specifications used to interpret concrete installation requirements

- characteristics of caulking materials and their effect on, and appropriateness of use with, priming agents
- types, characteristics and purposes of caulking surfaces and materials, including:
 - existing silicon or caulking material
 - existing backing rod
 - laitance
 - concrete prefabricated bonding agent residue
 - sealed concrete prefabricated surface
 - painted concrete prefabricated surface
 - moisture content of joint
 - silicone
 - polyurethane
 - modified polymer
 - polysulphide
 - acrylic
 - fire rating
- caulking tool types and their purpose, including:
 - wire brush
 - soft brush
 - scraper
 - air compressors and hoses
 - portable blower
 - sander/grinder
 - caulking 'slicks' (sausages)
 - spatula
 - roller
 - putty knife
 - caulking gun
 - power leads
 - testing equipment (moisture meter)
- workplace requirements for caulking prefabricated concrete elements:
 - cleaning up the work area
 - maintaining and storing plant, labelling, tools and equipment
 - reporting problems
 - quality
- terminology used for caulking
- manufacturer technical requirements
- specifications used for joint caulking
- types of concrete prefabricated elements
- fire rating requirements relevant to concrete prefabricated element rectification

- workplace procedures related to communication protocols
- principles of sustainability relevant to material reuse
- work planning and logical task sequencing
- types of concrete surface variables that reduce optimal sealant adhesion
- concrete prefabricated release agent residue
- impact of laitance, dirt and dust on caulking
- difference between closed cell and open cell backing rod
- processes for calculating material measurements and quantities.

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 erection design documentation, manufacturer technical data sheets, materials, plant, 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>