Unit of Competency CPCCSH2003 Apply and install sealant and sealant devices

Application

This unit of competency specifies the skills and knowledge required to apply sealants and sealant devices to structures.

The unit is suitable for those with basic skills and knowledge undertaking routine work tasks under the direction of more experienced workers.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of unit CPCCWHS1001 *Prepare to work safely in the construction industry* meets this requirement.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Prerequisite Unit

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

Elements and Performance Criteria

1. Plan and prepare.	1.1	Review work instructions to apply and install sealant and sealant devices.
	1.2	Plan all work to comply with laws and regulations, national construction codes, Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications and safety data sheets (SDS), workplace requirements, drawings and specifications.
	1.3	Select and use personal protective equipment (PPE) for each part of the task.
	1.4	Select tools and equipment, check for serviceability and report any faults.
	1.5	Calculate sealant material quantities to meet work instructions.
	1.6	Identify, obtain and prepare required materials and safely locate them ready for use.
2. Prepare surface to receive sealants.	2.1	Clean surface free of contaminants in accordance with manufacturer instructions.
	2.2	Prepare surface by sanding or cleaning in accordance with manufacturer specifications.

3. Apply sealant.	3.1	Apply sealant materials in accordance with manufacturer specifications.
	3.2	Check to ensure no air has been trapped within applied sealant and rectify as required.
	3.3	Align surfaces and install fixings in accordance with manufacturer specifications.
4. Install sealant devices.	4.1	Fit sealant devices securely to specified positions.
	4.2	Secure installation of fixture and check to ensure level and plumb to line.
5. Clean up.	5.1	Remove excess sealant from joints and surrounding surfaces and securely seal cartridge nozzle or container.
	5.2	Promptly remove sealants from tools and equipment.
	5.3	Clean up work site, meeting all legislative and workplace requirements for safety, waste disposal and materials handling.
	5.4	Check, maintain and store tools and equipment and report any faults.

Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and equivalent to CPCCSH2003A Apply and install sealant and sealant devices.

Links

Companion Volume Implementation Guide:
https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad

Assessment Requirements for CPCCSH2003 Apply and install sealant and sealant devices

Performance Evidence

To demonstrate competency, a candidate must satisfy all the elements, performance criteria and foundation skills of this unit by applying and installing sealants and sealant devices on at least one occasion involving:

- applying the following sealant materials:
  - bitumen
  - mastic
  - putty
  - silicone
  - waterproof paint
- installing the following sealant devices:
  - cover plates to aluminium framework
  - cover straps or beading to sheet jointing
  - flashings to window and door frames
  - impregnated material for masonry expansion joints
  - strip or sheet membrane.

All work must be performed to the standard required in the workplace and must comply with work health and safety (WHS) and environmental requirements, manufacturers' specifications and workplace requirements.

Knowledge Evidence

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

- behaviour of sealant materials used in structures
- mathematical processes required to measure and calculate surface area
- requirements of Commonwealth and state or territory work health and safety (WHS) legislation relevant to applying and installing sealant and sealant devices
- types and performance of sealants used in buildings
- workplace quality policies and standards for applying and installing sealant and sealant devices
- safety requirements for applying and installing sealant and sealant devices including safety data sheets
- types and uses of personal protection equipment and hand tools and equipment relevant to sealant application and installation work:
  - brooms
  - brushes
  - cartridge applicators
  - putty knives and paring knives
  - rollers
  - sanders
  - spray equipment

Assessment Conditions

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

This unit must be assessed while undertaking workplace tasks:

- in the workplace or a close simulation of the workplace environment, provided that simulated or project-based assessment techniques replicate construction workplace conditions, materials, activities, responsibilities and procedures
- using realistic tasks or simulated tasks, relevant specifications and work instructions, standard work practices, safety requirements and environmental constraints.

Links

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