

CPCCBC5004 Supervise and apply quality standards to the selection of building and construction materials

Release: 1

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Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCCBC5004A Supervise and apply quality standards to the selection of building and construction materials. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to apply quality standards to the selection of building and construction materials. It includes supervising the selection of building materials that meet building standards, contract specifications and service requirements for the project.

This unit of competency applies to builders, related construction industry professionals and project managers within building and construction firms responsible for supervising systems through which compliant and quality materials are selected, acquired and stored on site for construction of building projects.

This unit of competency applies to those who are self-directed and have substantial depth of knowledge and skills to make independent judgements.

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 *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.

Pre-requisite Unit

Nil.

Unit Sector

Building and Construction

Elements and Performance Criteria

Elements describe the Performance criteria describe what needs to be done to

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essential outcomes.

demonstrate achievement of the element.

- Determine the properties of building materials.
- 1.1 Access, read and interpret construction specifications and material standards.
- 1.2 Identify suitability of materials commonly used in the region for a given building system.
- 1.3 Determine properties of materials, their standards of quality and their compatibility and non-compatibility with different materials.
- 1.4 Identify environmental impacts of different materials.
- 1.5 Determine the impact of allowable tolerances on the conversion of naturally occurring materials.
- 1.6 Identify and check tolerances for installing and assembling materials regarding the nature of the work being performed and the requirements of Australian Standards.
- 2 Select suitable building materials for application.
- 2.1 Select building materials regarding structural requirements and suitability for the building system specified in the contract.
- 2.2 Select materials for their safety, required fire resistance rating, serviceability and cost effectiveness.
- 2.3 Consider short and long-term degradation of materials in relation to the proposed life cycle of the building.
- 2.4 Select alternative materials if specified materials are unavailable or unsuitable.
- 2.5 Arrange for expert advice as necessary to confirm or refute materials options.
- 2.6 Apply evidence of suitability, as stated in the National Construction Code (NCC), for all building materials and products.
- 3 Supervise the acceptance, safe handling and storage
- 3.1 Identify and communicate organisational procedures for the acceptance, safe handling, storage and protection of materials on site.

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of materials on site.

- 3.2 Instruct workers on the process to refuse acceptance of substandard or non-compliant materials.
- 3.3 Determine limitations and effects of transportation on materials and components and take action in the case of potentially damaging circumstances.
- 3.4 Handle materials correctly and safely on site using appropriate equipment and safe work practices.
- 3.5 Store materials in accordance with manufacturer specifications and in compliance with the relevant standards.
- 3.6 Implement systems for inspecting all materials delivered on site for naturally occurring and/or manufactured defects before installation.
- 3.7 Ensure personnel are aware of actions to be taken in the case of defects caused by incorrect installation, application or placement.
- 3.8 Preserve timber and protect ferrous and non-ferrous metals used in the construction process using established methods.
- 4 Supervise suitability and fit for purpose testing of materials.
- 4.1 Carry out testing of materials, including soil, filling, compacting, surfacing, concreting and welding, to specifications and analyse results on site before and during installation.
- 4.2 Accurately identify samples of materials taken during placement or installation and send for laboratory testing.
- 4.3 Visually check materials for suitability before building and send materials off site for testing, as required.
- 4.4 Implement processes to ensure defective materials are identified and remedial action is recorded.
- 5 Establish, record and report findings.
- 5.1 Establish and maintain records of tests and testing procedures completed by the organisation in accordance with its quality management obligations.
- 5.2 Evaluate test results and reports periodically to maintain

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integrity of organisational quality standards.

5.3 Notify non-conforming on-site material tests immediately to the appropriate organisation officer for further action.

Foundation Skills

As well as the foundation skills explicit in the performance criteria of this unit, candidates require:

- communication skills to:
 - liaise verbally and/or in writing with manufactures, suppliers and industry experts and regulators about materials and effectively resolve material quality or compliance issues
 - · communicate organisational procedures to workers
- technology skills to:
 - · use digital tools and devices to communicate and collaborate effectively with others
 - use equipment and programs to access, extract information and develop relevant documentation.

Unit Mapping Information

Supersedes and is equivalent to CPCCBC5004A Supervise and apply quality standards to the selection of building and construction materials.

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

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