



Australian Government

CPCCBBC4006 Select, procure and store construction materials for building and construction projects

Release: 2

CPCBC4006 Select, procure and store construction materials for building and construction projects

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 CPCBC4006B Select, procure and store construction materials for low rise projects. Title change. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to supervise the systems through which construction materials are typically selected, acquired and stored on site for residential and commercial building and construction projects. It includes knowledge of relevant building and construction materials and technologies, environmental effects on materials and identifying non-compliant materials to ensure the delivered construction materials meet National Construction Code (NCC) requirements and contract and service specifications.

It applies to NCC classifications:

- Residential - Class 1 and 10 buildings, maximum two storeys and
- Commercial - Class 2 to 9, Type C only constructions.

It applies to builders, managers and industry professionals responsible for applying quality standards when procuring and supervising on-site storage of compliant construction materials.

This unit of competency is suitable for those using specialised knowledge to complete routine and non-routine tasks and using their own judgement to deal with predictable and sometimes unpredictable problems.

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 *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

Licensing, regulatory or registration requirements apply to this unit of competency in some jurisdictions. Relevant state and territory regulatory authorities should be consulted to confirm these requirements.

Pre-requisite Unit

Nil.

Unit Sector

Building and 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 Identify and evaluate building materials.	1.1 Identify and read current and relevant project plans, specifications, codes and construction requirements. 1.2 Identify properties of specified materials and assess their suitability for the building project in the region. 1.3 Evaluate materials based on their quality, compatibility and compliance. 1.4 Establish environmental impacts of materials. 1.5 Determine impact of allowable tolerances on the conversion of naturally occurring materials. 1.6 Establish material assembly and installation tolerances to meet requirements of relevant construction industry standards.
2 Select and procure building material.	2.1 Select materials that are structurally adequate and appropriate for the building system specified in the contract. 2.2 Select materials for their safety, fire resistance rating, suitability, durability, serviceability and cost effectiveness. 2.3 Consider short and long-term degradation of materials in relation to the building's proposed life cycle. 2.4 Evaluate and consider alternative materials if specified materials are unavailable or unsuitable. 2.5 Finalise selection of materials for use in accordance with contractual requirements and in consultation with relevant professionals and the client. 2.6 Procure and order materials following organisation's purchasing requirements.

- | | | |
|---|--|---|
| | 2.7 | Collect evidence of suitability from suppliers or manufacturers to ensure non-compliant materials are not used. |
| 3 | Supervise on-site delivery and storage of materials. | |
| | 3.1 | Determine limitations and effects of transportation on materials and components and take action to limit potentially damaging circumstances. |
| | 3.2 | Check delivered materials are compliant with specifications, are not damaged and correspond with delivery order. |
| | 3.3 | Allocate on-site storage space, supervise safe handling of materials and ensure the security and protection of materials to meet manufacturer specifications. |
| | 3.4 | Implement processes for inspecting all materials delivered on site for quantity, quality, defects, or damage and store safely. |
| | 3.5 | Inform relevant persons of actions relating to quality and inconsistencies of delivered building materials. |
| | 3.6 | Instruct relevant persons of established workplace safety requirements when accepting and storing delivered materials. |
| | 3.7 | Maintain records of deliveries, damaged and inferior materials and variations to specified materials. |

Foundation Skills

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

- technology skills to:
 - use digital tools and devices to communicate and collaborate effectively with others
 - use equipment and programs to access and extract information and develop relevant documentation
- communication skills to:
 - use written and verbal communication with manufactures and suppliers, and other building professionals.

Unit Mapping Information

Supersedes and is equivalent to CPCBC4006B Select, procure and store construction materials for low rise projects.

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 CPCBC4006 Select, procure and store construction materials for building and construction projects

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 CPCBC4006B Select, procure and store construction materials for low rise projects. Title change. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by selecting, procuring and supervising the delivery and on-site storage of materials for one construction project for a residential or commercial building up to a maximum of two storeys.

In doing this, the candidate must:

- analyse reports, manufacturer specifications and other reference material regarding material technologies, sustainability and environmental efficiency
- test and measure products against relevant industry standards
- develop, supervise and maintain systems to select, acquire and store project materials on site
- seek expert advice from manufacturers, architects, designers and engineers about selecting and procuring alternative materials.

Knowledge Evidence

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

- relevant government building and construction legislation
- relevant project plans, specifications, standards and codes
- the National Construction Code (NCC):
 - evidence of suitability relating to non-conforming building materials and products
- properties, applications and limitations of specified building materials, products and components:
 - cements
 - ceramics

- concrete
- engineered timber products
- flooring
- framing
- glass
- mortars
- paints and coatings
- plasterboard
- plaster
- roofing
- structural steel
- environmental effects on materials, and preservation and protection methods:
 - timber
 - ferrous and non-ferrous metals
- alternative sustainable materials:
 - structural insulated panel systems
 - mud brick, straw bale and hemp
- construction supply processes and systems
- processes, procedures and techniques for:
 - identifying materials from plans and specifications
 - selecting and ordering compliant materials
 - external quality testing or inspection of materials to meet industry standards
 - referencing external reports and manufacturer specifications
 - seeking expert appraisal from architects, designers, engineers and relevant industry experts
 - refusing to accept non-compliant or substandard materials and taking appropriate action
- operational and functional features of materials handling equipment
- digital technology and applications to access, extract, integrate and compile information
- workplace safety:
 - relevant work health and safety (WHS) Act and regulations
 - hierarchy of control
 - hazardous manual tasks
 - mechanical material handling
 - licensing and competency for operating mechanical material handling equipment.

Assessment Conditions

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

Assessment can be undertaken in the workplace or in a simulated workplace environment.

A simulated environment is one that realistically replicates workplace conditions, materials and equipment, interactions with others and workplace irregularities, and which meets industry standards for safety and environmental practices.

Candidates must have access to:

- current relevant government legislation
- the NCC and other relevant codes and standards
- construction drawings, site plans and specifications
- organisational policies, procedures and other quality documentation to undertake the performance criteria and evidence requirements
- manufacturer reports on materials
- digital devices, applications and software to research, transmit and receive information electronically.

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>