



Australian Government

CPCCBS6102 Research and evaluate construction methods and materials for Class 2 to 9 buildings to three storeys

Release: 1

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Modification History

- Release 1 This version released with CPC Construction, Plumbing and Services Training Package Release 6.0.
- Supersedes and is equivalent to CPCCBS6002 Research and evaluate construction methods and materials for commercial buildings to three storeys.

Application

This unit of competency specifies the skills and knowledge required to develop an understanding of traditional, new and emerging construction methods and materials, including systems and components for services, for buildings included in Classes 2 to 9 as defined in the National Construction Code (NCC), up to three storeys and not exceeding 2,000 square metres in floor area. It includes researching and evaluating construction industry information, including research papers, engineering reports, material specifications and performance data; and establishing information management procedures to maintain data currency, classify and store research information.

This unit is suitable for building surveyors who draw on their broad theoretical knowledge and technical skills to provide advisory code-consulting services or authorised statutory services relating to planning or building permit application assessment or building audit and inspection services for Class 2 to 9 buildings.

This unit forms part of the licensing requirements for building surveying in some states and territories. Relevant state and territory regulatory authorities should be consulted to clarify these requirements.

Pre-requisite Unit

Nil.

Unit Sector

Building surveying

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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| 1 Research and evaluate construction methods for commercial buildings included in Classes 2 to 9. | 1.1 | Research information to identify traditional, new and emerging construction methods and conduct required checks to confirm the validity and reliability of gathered information. |
| | 1.2 | Investigate and evaluate methods for site investigation and preparation. |
| | 1.3 | Evaluate the application of different construction methods to structural elements, components or systems for buildings included in Classes 2 to 9. |
| 2 Research and evaluate construction materials for commercial buildings included in Classes 2 to 9. | 2.1 | Research information to identify traditional, new and emerging construction materials and conduct required checks to confirm the validity and reliability of gathered data. |
| | 2.2 | Evaluate the application of different construction materials to structural elements, components or systems for buildings included in Classes 2 to 9. |
| | 2.3 | Evaluate construction materials to determine fire resistance and performance for particular building occupancies and usage. |
| 3 Research and evaluate service provisions for commercial buildings included in Classes 2 to 9. | 3.1 | Research information to identify service requirements, compliance and installation methods, and conduct required checks to confirm the validity and reliability of gathered data. |
| | 3.2 | Evaluate options for energy supply and infrastructure, heating and cooling systems, fire protection, and gas and hydraulic service supply and infrastructure. |
| | 3.3 | Evaluate service systems and components in relation to different user groups, geographical locations and climatic conditions, and note strengths and weaknesses of each context. |
| 4 Report research and evaluation outcomes. | 4.1 | Prepare report containing research and evaluation findings, recommendations and supporting evidence for commercial buildings included in Classes 2 to 9 according to workplace requirements. |

- 4.2 Distribute research and evaluation report to relevant persons for feedback.
- 4.3 Implement information management procedures to maintain data currency and classify and store research and evaluation information for easy retrieval.

Foundation Skills

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

- numeracy skills to:
 - interpret construction material characteristics and performance data using fractions, decimals, percentages, ratio, rates and proportions
 - use mathematical language relating to properties of materials including fire ratings and load bearing capacities.
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Unit Mapping Information

Supersedes and is equivalent to CPCCBS6002 Research and evaluate construction methods and materials for commercial buildings to three storeys.

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>