



Australian Government

Department of Education, Employment and Workplace Relations

CPPACC5009A Evaluate materials for the construction of buildings for access

Release: 1

CPPACC5009A Evaluate materials for the construction of buildings for access

Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit specifies the competency required to evaluate and select materials for buildings in accordance with the specific requirements for access. The unit relates to the use of a range of building materials including concrete, glass, timber, plastic and plasterboard.

This unit is based on BCGSV5002A Evaluate materials for construction of domestic scale buildings.

Application of the Unit

Application of the unit

This unit of competency supports a number of access consulting services where there is a breadth, depth and complexity of tasks and often the requirement to make decisions and provide recommendations involving non-routine situations. These access consulting services include conducting building access audits, assessing building plans, developing designs for accessible buildings and serving on a Building Code of Australia Access Panel.

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Not Applicable

Employability Skills Information

Employability skills

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge and/or the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

- | | |
|---|---|
| <p>1 Analyse building materials' performance.</p> | <p>1.1 Properties of materials are analysed and selected for performance.</p> <p>1.2 Quality standards and performance of materials are identified in accordance with the specific requirements for access.</p> <p>1.3 <i>Methods of testing materials</i> are recorded and the product data sheets are reviewed.</p> <p>1.4 <i>Visual characteristics of materials</i> are identified and recorded.</p> <p>1.5 Compatibility of materials and their performance are identified and documented.</p> |
| <p>2 Investigate suitability of materials for buildings.</p> | <p>2.1 Samples of commonly used construction materials are identified and selected for investigation according to their purpose and standard work practices.</p> <p>2.2 Materials identified as structurally adequate are selected in accordance with the specific requirements for access.</p> <p>2.3 Materials of a required fire resistance are selected in accordance with the specific requirements for access.</p> <p>2.4 Materials considered cost effective are selected in accordance with manufacturers' specifications.</p> <p>2.5 Materials for a given application are selected according to the specific requirements for access.</p> |

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the essential skills and knowledge and their level, required for this unit.

Required knowledge and understanding include:

- commonwealth, state and territory anti-discrimination legislation and regulations
- design, structural and construction principles of buildings
- disability awareness
- environmental issues impacting on material selection
- grading processes and grade markings used to categorise timber and timber products
- international codes, standards, regulations and practices
- industry codes of practice and ethics
- limitations of work role, responsibility and professional abilities
- nature of building materials and effect of performance
- occupational health and safety legislation and procedures
- processes for interpreting reports, working drawings and specifications
- processes for preparing and administering documentation and reports
- relevant commonwealth, state and territory building legislation, local government regulations and Australian standards
- research methodology and analytical processes
- relevant terminology and definitions in hazard identification.

Required skills and attributes include:

- analytical skills to:
 - analyse, evaluate and apply legislative requirements pertaining to disability access
 - analyse and evaluate the impacts of the full range of disabilities and the limitations that each disability places on the individual's ability to access the environment
 - analyse and evaluate how environmental barriers impact on people with disabilities
 - interpret and analyse routine and non-routine situations to establish suitable methods of reporting
- application skills to:
 - apply relevant anti-discrimination and building legislation
 - apply industry building codes of practice and ethics and other legislative requirements to work processes
 - apply disability awareness to work processes
 - apply current Australian and international building codes, standards, regulations and practices
- communication skills to:
 - explain clearly information on issues relating to the provision of access
 - explain clearly information on legislation relating to the provision of access and the relationship between the various pieces of legislation
 - consult effectively with clients and colleagues

- impart knowledge and ideas through oral, written and visual means
- use workplace equipment and communication methods
- literacy skills to:
 - assess and use workplace information
 - read and interpret plans, specifications and structural drawings
 - read and interpret manufacturers' specifications
- organisational skills to:
 - prepare and manage documentation
 - develop and implement organisational procedures
 - plan and schedule investigation and analysis of buildings
- interpersonal skills to:
 - relate to people from a range of social, cultural and ethnic backgrounds and with a range of physical and mental abilities
 - consult and provide advice in a sensitive and appropriate manner
 - facilitate change for greater awareness of disability access
 - analyse own work practices and process outcomes critically
 - engage colleagues and share disability access knowledge
 - adapt to new workplace situations
- research and evaluation skills to:
 - source, analyse and evaluate building legislative requirements
 - source, analyse and evaluate other legislative requirements for the provision of access.

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, the range statement and the Assessment Guidelines for this Training Package.

Overview of assessment

- This unit of competency could be assessed on its own or as part of an integrated assessment activity involving other competencies relevant to the job function.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- A person who demonstrates competency in this unit must be able to provide evidence of:
 - recognising the needs and desires of people with disabilities to engage fully in all aspects of society, and their right to do so
 - interpreting accurately the impacts of the full range of disabilities and the limitations that each disability places on the individual's ability to access

- the environment
- interpreting accurately how the full range of environmental barriers impact on any of the impairments that people with disabilities might have
 - evaluating and selecting a range of building materials for the construction of accessible buildings
 - identifying materials to address specific requirements for access
 - applying organisational management policies and procedures, including quality assurance requirements where appropriate.
- Context of and specific resources for assessment**
- Resource implications for assessment include:
 - a registered provider of assessment services
 - competency standards
 - assessment materials and tools
 - suitable assessment venue/equipment
 - workplace documentation
 - candidate special requirements
 - cost and time considerations.
 - Validity and sufficiency of evidence requires that:
 - competency will need to be demonstrated over a period of time reflecting the scope of the role
 - where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice with a decision of competence only taken at the point when the assessor has complete confidence in the person's competence
 - all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence
 - where assessment is for the purpose of recognition (RCC/RPL), the evidence provided will need to be current and show that it represents competency demonstrated over a period of time
 - assessment can be through simulated project-based activity and must include evidence relating to each of the elements in this unit.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording in the performance criteria is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

Methods of testing

materials may include:

- slip resistance
- surface roughness
- compatibility of materials, including galvanic effect
- fire resistance
- impact resistance.

Visual characteristics of materials may include:

- luminance
- glare index
- colour.

Unit Sector(s)

Unit sector

Access consulting