

Unit of Competency

CPPACC5006 Apply ergonomic principles to accessible building design and fitout

Modification history

Release	Comments
1	Supersedes and is equivalent to CPPACC5006A Apply ergonomic principles to accessible building design and fitout. Unit updated to meet the Standards for Training Packages. This version first released with CPP Property Services Training Package Release 12.0.

Application

This unit of competency specifies the skills and knowledge required to apply concepts associated with human movement, posture and body strength to the design of the environment in which people live and work. It includes using basic statistical techniques, ergonomic data and analysis to identify strategies for the design and fitout of accessible workplaces and living spaces for persons with disability. The design of accessible workplaces will maximise task sequencing to ensure body movements are efficient in terms of energy conservation.

This unit is for individuals who are self-directed and have substantial depth of knowledge and skills to make independent judgements in the provision of access consulting services.

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

Prerequisite Unit

None.

Unit Sector

Access Consulting.

Elements and Performance Criteria

1. Determine range of human posture and body strength values within a defined population.	1.1 Accurately identify key working postures of the human body and apply to work activities. 1.2 Use appropriate methodology to measure key ergonomic features to determine the range of human posture and body strength values within a defined population. 1.3 Record ergonomic data in a format suitable for retrieval and statistical analysis according to workplace requirements.
2. Compare ergonomic data in architectural design documents with data derived through measurement of a defined population.	2.1 Source ergonomic data used in published architectural design documents. 2.2 Compare and verify published architectural design data against recent ergonomic data derived through measurement of a defined population. 2.3 Analyse ergonomic data that proves different to published architectural design data to assess the extent and possible causes of differences.
3. Apply the principles of ergonomics to the design of workplaces.	3.1 Analyse work processes undertaken in various locations to determine economical task sequencing in consultation with relevant persons.

	3.2 Work with relevant persons to locate the most essential elements in proximity to support functionality.
4. Identify and report critical ergonomic features impacting the ability of a person with disability to work and function independently.	4.1 Consult with client to determine level of functioning of person with disability. 4.2 Consult with client and use appropriate ergonomic methodology to identify ergonomic features relevant to the person with disability and their ability to work and function independently. 4.3 Recognise situations requiring specialist advice and seek assistance as required to meet client requirements. 4.4 Consult with relevant persons to identify appropriate strategies for design and fitout that will maximise the ability of the person with disability to work and function independently. 4.5 Report outcomes to relevant persons according to client and workplace requirements.

Foundation skills

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

Unit Mapping Information

Supersedes and is equivalent to CPPACC5006A Apply ergonomic principles to accessible building design and fitout

Links

The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at: <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPACC5006 Apply ergonomic principles to accessible building design and fitout

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by applying ergonomic principles to accessible building design and fitout to meet the needs of two different people with disability.

Knowledge Evidence

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

- anthropometric and ergonomic principles
- commonwealth, state and territory legislation, regulations, codes and standards relevant to access consulting activities:
 - o anti-discrimination and disability discrimination
 - o building control including local government regulations and by-laws
 - o *Disability (Access to Premises – Buildings) Standards 2010* under the *Disability Discrimination Act 1992* (or their successors) – known as the Access to Premises Standards
 - o National Construction Code (NCC) building classifications and access requirements
 - o National Disability Insurance Scheme (NDIS) *Specialist Disability Accommodation Design Standard* (or its successor)
 - o *Livable Housing Australia Livable Housing Design Guidelines* (or its successor)
 - o principles of universal design
 - o privacy and confidentiality
- human anatomy and anatomical terminology relevant to ergonomic analysis
- interpersonal communication strategies used to effectively relate to people from a range of social, cultural and ethnic backgrounds and with a range of physical and cognitive abilities
- principles of task sequencing for energy conservation
- sources of published architectural design documents that contain ergonomic data
- statistical parameters of a normally distributed population
- techniques for basic statistical analysis of ergonomic data and determining the normality of population variance
- techniques and methodologies for measuring anatomical features and the range of human movement, reach range and strength
- types of disability and limitations that each disability places on an individual's ability to access the environment
- workplace requirements for applying ergonomic principles to accessible building design and fitout:
 - o documentation and records administration

- o quality
- o recording and analysing ergonomic data
- o work role boundaries – responsibilities, limitations and professional abilities.

Assessment Conditions

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

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to documentation, information and technologies required to achieve the performance criteria and performance evidence.

Links

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