

Unit of Competency

CPPACC5003 Apply anthropometric principles to accessible building design and fitout

Modification history

| Release | Comments |
|---------|--|
| 1 | Supersedes and is equivalent to CPPACC5003A Apply anthropometric principles to accessible building design and fitout. Unit updated to meet the 2012 Standards for Training Packages. This version first released with CPP Property Services Training Package Release 14.0. |

Application

This unit of competency specifies the skills and knowledge required to apply concepts associated with human body size and shape to the design and fitout of the environment in which people live and work. It includes using basic statistical techniques, anthropometric data and analysis, and measuring components of body size and shape to identify strategies that will maximise the ability of persons with disability to work and function independently in their environment.

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

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| 1. Determine spread of body dimensions within a defined population. | 1.1 Accurately identify key anatomical features of the human body and apply to work activities. 1.2 Use appropriate methodology to measure key anatomical features to determine spread of body dimensions within a defined population. 1.3 Record anthropometric data in a format suitable for retrieval and statistical analysis according to workplace requirements. |
| 2. Analyse anthropometric data from a defined population to determine statistical variations involved. | 2.1 Apply basic statistical analysis to anthropometric data to determine population variance. 2.2 Report statistical parameters derived by appropriate analysis according to workplace requirements. 2.3 Document analysis findings using recognised statistical formats according to workplace requirements. |
| 3. Compare anthropometric data in architectural design documents with data derived through | 3.1 Source anthropometric data used in published architectural design documents. 3.2 Compare and verify published architectural design data against recent anthropometric data derived through measurement of a defined population. |

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| measurement of a defined population. | 3.3 Analyse anthropometric data that proves different to published architectural design data to assess the extent and possible causes of differences, and likely consequences of altering published architectural design data. |
| 4. Identify and report critical anthropometric 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 anthropometric methodology to identify anthropometric 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 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 CPPACC5003A Apply anthropometric 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 CPPACC5003 Apply anthropometric 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 anthropometric 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:
 - anti-discrimination and disability discrimination
 - building control including local government regulations and by-laws
 - *Disability (Access to Premises – Buildings) Standards 2010* under the *Disability Discrimination Act 1992* (or their successors) – known as the Access to Premises Standards
 - National Construction Code (NCC) building classifications and access requirements
 - National Disability Insurance Scheme (NDIS) *Specialist Disability Accommodation Design Standard* (or its successor)
 - Livable Housing Australia *Livable Housing Design Guidelines* (or its successor)
 - principles of universal design
 - privacy and confidentiality
- human anatomy and anatomical terminology relevant to anthropometric 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
- processes for interpreting working drawings and specifications
- sources of published architectural design documents that contain anthropometric data
- statistical parameters of a normally distributed population
- techniques for basic statistical analysis of anthropometric data and determining the normality of population variance
- techniques and methodologies for measuring anatomical features and the range of human movement and reach
- types of disability and limitations that each disability places on an individual's ability to access the environment
- workplace requirements for applying anthropometric principles to accessible building design and fitout:
 - documentation and records administration

- quality
- recording and analysing anthropometric data
- 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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