Unit of Competency

CPPACC5007 Apply mechanics of human body functions to accessible building design and fitout

Modification history

Release	Comments
1	Supersedes and is equivalent to CPPACC5007A Apply mechanics of human body functions 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 anatomy, body function and the functional limitations that result from impairment of the musculoskeletal, visual and auditory systems to the design of accessible environments. It includes analysing accessibility design data for mobility, wayfinding and communication with data for associated functional impairments in a defined population to identify any differences and the possible causes and extent of those differences.

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 the level of impairment in human anatomy and body function within a defined population.	1.1 Accurately identify key functional systems of the human body and apply to work activities. 1.2 Select appropriate terminology for describing impairment of key body functions. 1.3 Identify and document the relationship between impairment, disability and handicap. 1.4 Record the extent of impairment in a defined population in a format suitable for retrieval and statistical analysis according to workplace requirements.
2. Analyse the impact of anatomical and functional impairment of the musculoskeletal system on the mobility needs of a defined population and consequences for accessible design.	2.1 Assess published accessibility design data for mobility against anatomical and functional impairment of the musculoskeletal system data for its ability to meet the mobility needs of the defined population. 2.2 Compare data on anatomical and functional impairment of the musculoskeletal system for a defined population with published accessibility design data to identify any differences in mobility needs.

	2.3 Identify the extent and possible causes of difference between the defined population and published accessibility design data for mobility.
3. Analyse the impact of anatomical and functional impairment of the eye and vision system on the wayfinding needs of a defined population and consequences for accessible design.	3.1 Assess published accessibility design data for wayfinding against anatomical and functional impairment of the eye and vision system data for its ability to meet the wayfinding needs of the defined population. 3.2 Compare data on anatomical and functional impairment of the eye and vision system for a defined population with published accessibility design data to identify any differences in wayfinding needs. 3.3 Identify the extent and possible causes of difference between the defined population and published accessibility design data for wayfinding.
4. Analyse the impact of anatomical and functional impairment of the ear and auditory system on the communication needs of a defined population and consequences for accessible design.	4.1 Assess published accessibility design data for communication against anatomical and functional impairment of the ear and auditory system data for its ability to meet the communication needs of the defined population. 4.2 Compare data on anatomical and functional impairment of the ear and auditory system for a defined population with published accessibility design data to identify any differences in communication needs. 4.3 Identify the extent and possible causes of difference between the defined population and published accessibility design data for communication.

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 CPPACC5007A Apply mechanics of human body functions 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 CPPACC5007 Apply mechanics of human body functions 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 the mechanics of human body functions to accessible building design and fitout to meet the needs of two different people.

Knowledge Evidence

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

- anatomical terminology relevant to work activities
- Commonwealth, state and territory legislation, regulations, codes and standards relevant to access consulting activities:
    - anti-discrimination and disability discrimination
    - AS 1428.4.2 Design for access and mobility – Means to assist the orientation of people with vision impairment – Wayfinding signs (or its successor)
    - 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
    - privacy and confidentiality
- human anatomy, body systems and functions including human body dysfunction and ability
- 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 accessibility design data for mobility, wayfinding and communication
- statistical parameters of a normally distributed population
- techniques for basic statistical analysis and determining the normality of population variance
- types of disability and limitations that each disability places on an individual's ability to access the environment
- workplace requirements for applying mechanics of human body functions to accessible building design and fitout:
    - documentation and records administration
    - quality
    - recording and analysing 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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