



Australian Government

CPCCB4014 Prepare simple building sketches and drawings

Release: 2

CPCCBBC4014 Prepare simple building sketches and drawings

Modification History

Release 2 Updated reference to general construction induction training program.

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.

Supersedes and is equivalent to CPCCBBC4014A Prepare simple building sketches and drawings. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to prepare sketches and drawings used for communicating ideas to clients and other parties. It includes capturing design concepts and options taken from architectural drawings to create simpler versions.

The unit of competency applies to builders, experienced tradespersons, project managers and estimators who prepare sketches and drawings for estimating, explaining details and showing measurements required for building and construction work.

It does not describe more complex drafting skills.

This unit of competency is suitable for those using specialised knowledge to complete routine and non-routine tasks and using their own judgement to deal with predictable and sometimes unpredictable problems.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of CPCWHS1001 Prepare to work safely in the construction industry meets this requirement.

Licensing, regulatory or registration requirements apply to this unit of competency in some jurisdictions. Relevant state and territory regulatory authorities should be consulted to confirm these requirements.

Pre-requisite Unit

Nil.

Unit Sector

Building and Construction

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 Prepare to make sketches and drawings. | 1.1 Identify and select relevant information from construction plans required for sketching or drawing. |
| | 1.2 Confirm construction plan information complies with building and construction regulations, standards and codes. |
| | 1.3 Consider purpose and presentation of drawings and sketches and the intended audience. |
| | 1.4 Determine format of information and select and inspect equipment for serviceability. |
| 2 Create simple sketches and drawings. | 2.1 Establish and record measurements, information and details required for drawing and sketches. |
| | 2.2 Transfer vital information into two-dimensional and three-dimensional drawing and sketches. |
| | 2.3 Create sketches and drawings using standard drawing conventions to detail vital information. |
| | 2.4 Produce sectional drawings to clearly identify and label elements and components. |
| 3 Notate and process drawings. | 3.1 Apply essential information to the drawing using dimension lines, symbols and abbreviations following standard drawing conventions. |
| | 3.2 Include drawing and job title, date, scale and sheet number in the title block. |
| | 3.3 Produce completed drawings in an appropriate form for presentation. |

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 CPCCBBC4014A Prepare simple building sketches and drawings.

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>

Assessment Requirements for CPCBC4014 Prepare simple building sketches and drawings

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by drawing two components of the fabric of the building from a set of construction plans and prepare drawings for presentation.

In doing this, the candidate must:

- select one structural and one non-structural component and collate vital information required for the drawing
- prepare simple sketches of the structural and non-structural components
- produce clear and descriptive drawings with appropriate notations and labelling.

Knowledge Evidence

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

- types of building and construction plans:
 - presentation drawings
 - isometric drawings
 - orthographic drawings
 - perspective drawings
- drawing conventions:
 - sheet layout
 - title block
 - line types
 - symbols
 - dimensions and dimension lines
 - abbreviations

- key features of a construction plan
- computer-aided design (CAD) drawings
- technical drawing by hand
- building and construction regulations, standards and codes
- the NCC
- building information modelling (BIM)
- building and construction methods and terminology
- workplace processes, workplace safety and environmental requirements.

Assessment Conditions

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

Assessment can be undertaken in the workplace or in a simulated workplace environment.

A simulated environment is one that realistically replicates workplace conditions, materials and equipment, interactions with others and workplace irregularities, and which meets industry standards for safety and environmental practices.

Candidates must have access to:

- construction plans and specifications
- current building and construction codes and standards
- the NCC
- hand drawing equipment
- workplace procedures and other quality documentation required to undertake the performance criteria and assessment requirements
- computers, applications and software to access drawings and other relevant information.

Links

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