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CPC Construction, Plumbing and Services Training Package

Companion Volume Implementation Guide

Release 4.0

January 2019

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Published by: Artibus Innovation

 373 Elizabeth Street

 North Hobart

 TAS, 7000

 Phone: (+61) 03 6218 2841

 Webpage: artibus.com.au

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**About Artibus Innovation and its industry sectors**

The Construction, Plumbing and Services Industry Reference Committee (IRC) represents the workforce training and skills development needs of the construction, plumbing and services sectors. More than 1.8 million Australians work in over 526 000 enterprises within the industry. Together these workers and companies contribute greatly to Australia’s infrastructure by underpinning the nation’s economic and social fabric.

Artibus Innovation is the Skills Service Organisation supporting the IRCs for the Construction, Plumbing and Services, and Property Services industries in Australia. It develops, manages and distributes nationally endorsed and recognised training packages, and associated training and assessment materials.

Refer to www.artibus.com.au for more information.

**About the construction, plumbing and services sectors**

In economic terms, the construction industry is a major segment of the Australian economy, employing nearly 900 000 people, with half of this workforce in the housing sector. The industry is characterised by contract labour, and with less than three people per firm, the norm is microbusinesses with owners working directly in a trade area, rather than just business management. The trend toward labour hire rather than direct employment is more pronounced in the general construction industry than in any other.

The CPC Construction, Plumbing and Services Training Package covers occupations and job roles in general and off-site construction, plumbing and services, from entry level to management.

Building techniques used in the construction industry have undergone changes in recent years, with significant technological advances in prefabrication, energy efficiency and project management tools. These advancements have affected a wide range of fields from materials (concrete, metal pre-casting and alternative wood products), to management methods (subcontracting, prefabrication and project management), to innovations (robotics, computer-aided design and electronically linked project management teams). The benefits of technological advancement for the industry are seen in increased productivity, new capital equipment and the improved energy efficiency of buildings.

The plumbing and services sector is driven by public health and environmental requirements arising from the water industry and the need for proper sanitation. Sustainable and environmentally friendly practices are also driving the sector. The ongoing need to protect the environment from ozone‑depleting substances, and the search for alternative energy methods and water-saving measures will require that plumbers of the future have a major impact on addressing environmental requirements in their everyday activities and that they have the appropriate education to enable them to do so. Technology impacts on this sector in various ways.

# Overview information

## Version control and modification history

|  |  |  |
| --- | --- | --- |
| **Release No.** | **Release date** | **Comments** |
| 4.0 | December 2018 | Revision of 1 qualification, which is equivalent to its superseded version in CPC08:* CPC30318 Certificate III in Concreting.
* Revision of 32 equivalent units of competency.

Minor releaseThe following elective imported units of competency were updated in CPC30116 Certificate III in Shopfitting:* BSBSMB421 supersedes and is equivalent to BSBSMB406
* MSFGG3036 supersedes and is non-equivalent to MSFGG3017.
 |
| 3.0 | April 2017 | Revision of 2 non-equivalent units of competency:* CPCCPB3014 Install bulk insulation and pliable membrane products
* CPCCPB3027 Install ceiling products.
 |
| 2.1 | December 2016 | Minor release for the revision to CPCCWHS1001 Prepare to work safely in the construction industry replacing superseded CPCCOHS1001A Work safely in the construction industry. |
| 2.0 | September 2016 | Revision of two qualifications equivalent to their superseded versions in CPC08:* CPC30116 Certificate III in Shopfitting
* CPC30216 Certificate III in Signs and Graphics.

Addition of 10 shop-fitting units of competency. |
| 1.0 | June 2015 | Primary release 2 revised qualifications:* CPC60115 Advanced Diploma of Building Surveying
* CPC80115 Graduate Certificate in Fire Systems Design Management.

1 new qualification:* CPC80215 Graduate Diploma of Building Surveying

1 new skill set:* CPCSS00004 Provide building surveying services for residential buildings up to three storeys.

34 units of competency. |

## Purpose of this Guide

This Guide supports the CPC Construction, Plumbing and Services Training Package. It has been developed to assist trainers, assessors, registered training organisations (RTOs) and others by providing information about the structure and contents of the training package, as well as other guidance material.

## About training packages

A training package is an integrated set of nationally endorsed competency standards, assessment requirements and Australian Qualifications Framework (AQF) qualifications for a specific industry, industry sector or enterprise.

Each training package:

* provides a consistent and reliable set of components for training and for recognising and assessing learners’ skills, and may also have optional support materials
* enables nationally recognised qualifications to be awarded through direct assessment of workplace competencies
* encourages the development and delivery of flexible training that suits learner and industry requirements
* strongly encourages learning and assessment in a work-related environment, which leads to verifiable workplace outcomes.

Training packages specify the skills and knowledge required to perform effectively in the workplace. They do not prescribe how an individual should be trained. Trainers and supervisors develop learning strategies—the ‘how’—depending on learner needs, abilities and circumstances.

The ***Training Package Development and Endorsement Process Policy*** ensures that qualifications, units of competency and assessment requirements are developed to an agreed quality standard and are responsive to industry’s existing and future demand for new skills.

The following key principles underpin the process.

* open and inclusive industry-driven improvement, validation and endorsement of training packages
* strong and clear key stakeholder roles with critical points of intervention and consultation
* high levels of responsiveness in order to meet industry needs and priorities for new skills.

More information about training packages may be found at:

<https://www.education.gov.au/training-packages.>

**Summary of the CPC Construction, Plumbing and Services Training Package**

The CPC Construction, Plumbing and Services Training Package comprises:

* 6 qualifications
* 106 units of competency and associated assessment requirements
* 1 skill set.

**Training package code and title**

Each training package has a unique national code identified by a three-alpha character code followed by a concise title reflecting the industry sector. For the CPC Construction, Plumbing and Services Training Package, the three-alpha character code includes:

* CP = ‘construction and property’ industries
* C = ‘construction, plumbing and services’ industry sectors.

**Qualification codes**

As represented in Figure 1 below, each qualification has a unique eight-character code the:

* first three characters identify the training package
* first number identifies the qualification level
* next two numbers identify the position of the qualification in the sequence of qualifications at that level
* last two numbers identify the year in which the qualification was endorsed.

|  |  |  |  |
| --- | --- | --- | --- |
| **CPC** | **8** | **01** | **16** |
|  |  |  |  |
| **Construction, Plumbing and Services Training Package** | **AQF Level** | **First AQF level 8 Qualification in the Training Package** | **Year of Endorsement** |

**Units of competency codes**

Units of competency are nationally agreed statements about the skills and knowledge required for effective performance in the workplace. They identify outcomes as defined by regulatory requirements and agreed by industry.

As such, they identify the skills and knowledge (as outcomes) that contribute to the whole job function – they do not describe how to perform a particular role.

As represented in Figure 2 below, in the CPC Construction, Plumbing and Services Training Package, each unit of competency has a unique ten-character code where the:

* first three letters identify the training package
* next three letters identify the industry sector
* the four numbers identify the indicative AQF level and position of the unit in the sequence of units in the sector.

|  |  |  |  |
| --- | --- | --- | --- |
| **CPC** | **SFS** | **8** | **001** |
|  |  |  |  |
| **Construction, Plumbing and Services Training Package** | **Fire System Sector** | **Indicative AQF level** | **First Unit for the Sector**  |

## At present, whilst developing units of competency, Artibus Innovation includes indicative AQF levels as a coding policy.

##

## Qualifications

Qualifications comprise units of competency that, packaged together, support an industry-agreed job role. Qualifications typically comprise several mandatory core units that are required across the entire industry and a number of elective units that can be chosen to suit the industry sector and regulatory, enterprise, professional or individual requirements.

The AQF provides a comprehensive, nationally consistent framework for all qualifications in post-compulsory education and training in Australia. In the vocational education and training (VET) sector, it assists national consistency for all trainees, learners, employers and providers by enabling national recognition of qualifications and statements of attainment. For a full explanation of the AQF, refer to the *AQF Second Edition* (January 2013), which may be found at [www.aqf.edu.au](http://www.aqf.edu.au).

|  |
| --- |
| **CPC Construction, Plumbing and Services Training Package Qualifications**  |
| Qualification Title |
| AQF 3 |
| CPC30318 Certificate III in Concreting |
| CPC30116 Certificate III in Shopfitting |
| CPC30216 Certificate III in Signs and Graphics |
| AQF 6 |
| CPC6015 Advanced Diploma of Building Surveying |
| AQF 8 |
| CPC80115 Graduate Certificate in Fire Systems Design Management |
| CPC80215 Graduate Diploma of Building Surveying |

##

## Skill sets

Skill sets are single units of competency or combinations of units of competency from an endorsed Training Package/s that link to licensing or regulatory requirements, or a defined industry need.

A skill set is awarded with the issuing of a Statement of Attainment.

Each skill set has a code that is automatically assigned by [www.training.gov.au](http://www.training.gov.au) (TGA) where the:

* first three characters identify the Training Package
* next two characters indicate that it is a skill set
* numbers identify the skill set’s position in the sequence of skill sets.

|  |
| --- |
| CPC Construction, Plumbing and Services Training Package skill sets  |
| Code | Title  |
| CPCSS00004 | Provide building surveying services for residential buildings up to three storeys |

##

## Units of competency

A unit of competency is a specification of industry skills and knowledge and the application of those skills and knowledge to the standard of performance required in the workplace.

Every CPC Construction, Plumbing and Services Training Package unit of competency has associated assessment requirements that describe the evidence and required conditions for assessment.

| **CPC Construction, Plumbing and Services Training Package units of competency**  |
| --- |
| **Code** | **Title**  |
| CPCCBS6001  | Research and evaluate construction methods and materials for residential buildings to three storeys |
| CPCCBS6002 | Research and evaluate construction methods and materials for commercial buildings to three storeys |
| CPCCBS6003 | Apply legal and ethical requirements to building surveying functions |
| CPCCBS6004 | Assess and advise on compliance of design documentation for residential buildings to three storeys |
| CPCCBS6005 | Assess and advise on compliance of design documentation for commercial buildings to three storeys |
| CPCCBS6006 | Process planning applications for residential buildings up to three storeys |
| CPCCBS6007 | Process planning applications for commercial buildings up to three storeys |
| CPCCBS6008 | Process building applications for residential buildings up to three storeys |
| CPCCBS6009 | Process building applications for commercial buildings up to three storeys |
| CPCCBS6010 | Conduct and report on building surveying audits of residential buildings up to three storeys |
| CPCCBS6011 | Conduct and report on building surveying audits of commercial buildings up to three storeys |
| CPCCBS6012 | Conduct and report on initial construction inspections of residential buildings up to three storeys |
| CPCCBS6013 | Conduct and report on initial construction inspections of commercial buildings up to three storeys |
| CPCCBS6014 | Conduct and report on advanced and final inspections of residential buildings up to three storeys |
| CPCCBS6015 | Conduct and report on advanced and final inspections of commercial buildings up to three storeys |
| CPCCBS6016 | Assess and advise on performance-based solutions for buildings up to three storeys |
| CPCCBS6017 | Monitor and advise on construction and compliance upgrade work on buildings up to three storeys |
| CPCCBS8001 | Manage building surveying risks and ensure compliance with ethical and professional standards |
| CPCCBS8002 | Manage information on construction methods, materials and services for a building surveying team |
| CPCCBS8003 | Manage information on compliance requirements for a building surveying team |
| CPCCBS8004 | Advise on compliance of building design documentation |
| CPCCBS8005 | Manage planning approval processes for all building types |
| CPCCBS8006 | Manage building approval processes for all building types |
| CPCCBS8007 | Monitor building work and advise on compliance issues |
| CPCCBS8008 | Conduct and manage the completion of building inspections and audits |
| CPCCBS8009 | Lead a building surveying team |
| CPCCBS8010 | Liaise and coordinate with head contractors on building projects |
| CPCCBS8011 | Assess and advise on performance-based solutions for all types of buildings |
| CPCCCA2003 | Erect and dismantle formwork for footings and slabs on ground |
| CPCCCA3001  | Carry out general demolition of minor building structures |
| CPCCCM1012 | Work effectively and sustainably in the construction industry |
| CPCCCM1013 | Plan and organise work |
| CPCCCM1014 | Conduct workplace communication |
| CPCCCM1015 | Carry out measurements and calculations |
| CPCCCM1016 | Identify requirements for safe tilt-up work |
| CPCCCM2001 | Read and interpret plans and specifications |
| CPCCCM2006 | Apply basic levelling procedures |
| CPCCCM2007 | Use explosive power tools  |
| CPCCCM2008 | Erect and dismantle restricted height scaffolding |
| CPCCCM2010 | Work safely on scaffolding higher than two metres |
| CPCCCM3001 | Operate elevated work platforms up to 11 metres |
| CPCCCM3003 | Work safely around electrical sources, services and assets |
| CPCCCM3004 | Identify and apply information in construction plans, drawings and specifications |
| CPCCCM3005 | Calculate costs of construction work |
| CPCCCM3006 | Carry out levelling operations |
| CPCCCO2021 | Handle concreting materials |
| CPCCCO2022 | Select, check and maintain concreting plant, tools and equipment |
| CPCCCO3035 | Assess and specify concrete supply requirements |
| CPCCCO3036 | Plan concrete work and brief team |
| CPCCCO3041 | Place concrete |
| CPCCCO3042 | Finish concrete |
| CPCCCO3043 | Cure concrete |
| CPCCCO3044 | Apply decorative finishes to concrete |
| CPCCCO3046 | Repair and rectify concrete |
| CPCCCO3047 | Cut and core concrete |
| CPCCCO3048 | Construct tilt panels on site |
| CPCCCO3049 | Apply and finish sprayed concrete |
| CPCCCO3050 | Carry out high performance concreting |
| CPCCCO3051 | Conduct off-form vertical concrete operations |
| CPCCCO3052 | Conduct concrete boom delivery operations |
| CPCCCO3053 | Slump‑test concrete |
| CPCCCO3054 | Operate concrete agitator trucks |
| CPCCCO3055 | Install topping slabs |
| CPCCJN3001 | Process materials to produce components using static machines |
| CPCCLBM3001 | Licence to operate a concrete placing boom |
| CPCCPB3014 | Install bulk insulation and pliable membrane products |
| CPCCPB3027 | Install ceiling insulation products |
| CPCCSF2003 | Cut and bend materials using oxy-LPG equipment |
| CPCCSF2004 | Place and fix reinforcement materials |
| CPCCSF3001 | Apply reinforcement schedule |
| CPCCSG3001 | Design and layout digital signs for production |
| CPCCSG3002 | Produce and apply vinyl signs |
| CPCCSG3003 | Colour manage signs |
| CPCCSG3004 | Print digital signs |
| CPCCSG3005 | Engrave signs |
| CPCCSG3006 | Apply gilding to signs |
| CPCCSG3007 | Paint lines and scrolls |
| CPCCSG3008 | Hand draw chalkboards and showcards |
| CPCCSG3009  | Screen-print signs |
| CPCCSG3010 | Hand render pictorials |
| CPCCSG3011 | Install LED technology into signs |
| CPCCSG3012 | Fabricate signs |
| CPCCSG3013 | Paint letters and decorative effects for signs |
| CPCCSG3014 | Manufacture gas-charged glass-formed illuminated signs |
| CPCCSG3015 | Produce airbrushed signs |
| CPCCSG3016 | Prepare surfaces for signs |
| CPCCSG3017 | Erect and install signs |
| CPCCSH3001 | Fabricate shopfitting components using CNC machines |
| CPCCSH3002 | Fabricate and assemble shopfront structures |
| CPCCSH3003 | Assemble and install shopfront structures |
| CPCCSH3004 | Assemble internal shopfitting units and prepare for transport |
| CPCCSH3005 | Apply and trim decorative additions to shopfittings and components |
| CPCCSH3006 | Prepare shopfittings and surfaces and apply liquid finishes |
| CPCCSH3007 | Install prefabricated internal shopfitting units |
| CPCCSH3008 | Install internal shop walls and fixtures |
| CPCCSH3009 | Demolish shopfronts and bulkheads |
| CPCCSH3010 | Prepare shop floors for new coverings |
| CPCCWC3004 | Install suspended ceilings |
| CPCCWHS1001 | Prepare to work safely in the construction industry |
| CPCCWHS2001 | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCWHS3001 | Identify construction work hazards and select risk control strategies |
| CPCMCM8001 | Plan and manage complex projects |
| CPCMCM8002 | Manage the quality of projects and processes |
| CPCSFS8001 | Define scope of and initiate special hazard fire systems design projects |
| CPCSFS8002 | Analyse, design and evaluate complex special hazard fire systems |
| CPCSFS8003 | Develop and submit tenders for fire systems design solutions |

##

## Unit mapping information

The mapping table below details the units of competency in the CPC Construction, Plumbing and Services Training Package with comments about their relationship to units of competency in the CPC08 Construction, Plumbing and Services Training Package.

| **Construction, Plumbing and Services Training Package Units of competency**  |
| --- |
| **Code and title** | **CPC08 Construction, Plumbing and Services Training Package** | **Comments** | **Equivalence statement** |
| **RELEASE 4.0** |
| CPCCCA2003 Erect and dismantle formwork for footings and slab on ground | CPCCCA2003A Erect and dismantle formwork for footings and slabs on ground | Supersedes and replaces CPCCCA2003A Erect and dismantle formwork for footings and slabs on ground.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCA3001 Carry out general demolition of minor building structures | CPCCCA3001A Carry out general demolition of minor building structures | Supersedes and replaces CPCCCA3001A Carry out general demolition of minor building structures.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCM1012 Work effectively and sustainably in the construction industry | CPCCCM1012AWork effectively and sustainably in the construction industry | Supersedes and replaces CPCCCM1012A Work effectively and sustainably in the construction industry.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCM1013 Plan and organise work | CPCCCM1013A Plan and organise work | Supersedes and replaces CPCCCM1013A Plan and organise work.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCM1014 Conduct workplace communication | CPCCCM1014A Conduct workplace communication | Supersedes and replaces CPCCCM1014A Conduct workplace communication.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCM1015 Carry out measurements and calculations | CPCCCM1015A Carry out measurements and calculations | Supersedes and replaces CPCCCM1015A Carry out measurements and calculations.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCM1016 Identify requirements for safe tilt-up work | CPCCCM1016A Identify requirements for safe tilt-up work | Supersedes and replaces CPCCCM1016A Identify requirements for safe tilt-up work.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCM2001 Read and interpret plans and specifications | CPCCCM2001A Read and interpret plans and specifications | Supersedes and replaces CPCCCM2001A Read and interpret plans and specifications.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCM2007 Use explosive power tools | CPCCCM2007B Use explosive power tools | Supersedes and replaces CPCCCM2007B Use explosive power tools.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCM2008 Erect and dismantle restricted height scaffolding | CPCCCM2008B Erect and dismantle restricted height scaffolding | Supersedes and replaces CPCCCM2008B Erect and dismantle restricted height scaffolding.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO2021 Handle concreting materials | CPCCCO2021A Handle concreting materials | Supersedes and replaces CPCCCO2021A Handle concreting materials.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO2022 Select, check and maintain concreting plant, tools and equipment | CPCCCO2022A Use and maintain concreting plant, tools and equipment | Supersedes and replaces CPCCCO2022A Use and maintain concreting plant, tools and equipment.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3035 Assess and specify concrete supply requirements | CPCCCO3035A Assess and specify concrete supply requirements | Supersedes and replaces CPCCCO3035A Assess and specify concrete supply requirements. The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3036 Plan concrete work and brief team | CPCCCO3036A Plan concrete work and brief team | Supersedes and replaces CPCCCO3036A Plan concrete work and brief team.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3041 Place concrete | CPCCCO3041A Place concrete | Supersedes and replaces CPCCCO3041A Place concrete.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3042 Finish concrete | CPCCCO3042A Finish concrete | Supersedes and replaces CPCCCO3042A Finish concrete.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3043 Cure concrete | CPCCCO3043A Cure concrete | Supersedes and replaces CPCCCO3043A Cure concrete.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3044 Apply decorative finishes to concrete | CPCCCO3044A Carry out decorative finishes to concrete | Supersedes and replaces CPCCCO3044A Carry out decorative finishes to concrete.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3046 Repair and rectify concrete | CPCCCO3046A Repair and rectify concrete | Supersedes and replaces CPCCCO3046A Repair and rectify concrete.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3047 Cut and core concrete | CPCCCO3047A Cut and core concrete | Supersedes and replaces CPCCCO3047A Cut and core concrete.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3048 Construct tilt panels on site | CPCCCO3048A Construct tilt panels on site | Supersedes and replaces CPCCCO3048A Construct tilt panels on site.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3049 Apply and finish sprayed concrete | CPCCCO3049A Apply and finish sprayed concrete | Supersedes and replaces CPCCCO3049A Apply and finish sprayed concrete.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3050 Carry out high performance concreting | CPCCCO3050A Carry out high performance concreting | Supersedes and replaces CPCCCO3050A Carry out high performance concreting.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3051 Conduct off-form vertical concrete operations | CPCCCO3051A Conduct off-form vertical concrete operations | Supersedes and replaces CPCCCO3051A Conduct off‑form vertical concrete operations.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3052 Conduct concrete boom delivery operations | CPCCCO3052A Conduct concrete boom delivery operations | Supersedes and replaces CPCCCO3052A Conduct concrete boom delivery operations.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3053 Slump‑test concrete | CPCCCO3053A Slump-test concrete | Supersedes and replaces CPCCCO3053A Slump-test concrete.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3054 Operate concrete agitator trucks | CPCCCO3054A Operate concrete agitator trucks | Supersedes and replaces CPCCCO3054A Operate concrete agitator trucks.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCCO3055 Install topping slabs | CPCCCO3055A Install topping slabs | Supersedes and replaces CPCCCO3055A Install topping slabs.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCSF2003 Cut and bend materials using oxy-LPG equipment | CPCCSF2003A Cut and bend materials using oxy‑LPG equipment | Supersedes and replaces CPCCSF2003A Cut and bend materials using oxy-LPG equipment.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCSF2004 Place and fix reinforcement materials | CPCCSF2004A Place and fix reinforcement materials | Supersedes and replaces CPCCSF2004A Place and fix reinforcement materials.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCSF3001 Apply reinforcement schedule | CPCCSF3001A Apply reinforcement schedule | Supersedes and replaces CPCCSF3001A Apply reinforcement schedule.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry | CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry | Supersedes and replaces CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry.The unit of competency was updated to the Standards for Training Packages 2012. | E |
| Release 3.0 |
| CPCCPB3014 Install bulk insulation and pliable membrane products | CPCCPB3014A Install batt insulation products | Unit replaces superseded unit: CPCCPB3014AMinor change to title. Addition of new performance criteria to strengthen context for the application of safety awareness.Significant changes to performance criteria, range items, and assessment requirements to provide clarity, better represent industry practice, and reflect requirements of Standards for Training Packages. | N |
| CPCCPB3027 Install ceiling insulation products | CPCCPB3027A Install ceiling insulation  | Unit replace superseded unit: CPCCPB3027AMinor change to title. Addition of new performance criteria to strengthen context for the application of safety awareness.Significant changes to performance criteria, range items, and assessment requirements to provide clarity, better represent industry practice, and reflect requirements of Standards for Training Packages. | N |
| Release 2.1 |
| CPCCWHS1001 Prepare to work safely in the construction industry | CPCCOHS1001A Work safely in the construction industry | Unit replaces superseded unit CPCCOHS1001A.Minor change to title.Changes to elements, performance criteria and assessment requirements to provide clarity and better reflect industry practice. | E |
| Release 2.0 |
| CPCCCM2006 Apply basic levelling procedures | CPCCCM2006B Apply basic levelling procedures | Unit replaces superseded unit: CPCCCM2006B.Redesigned unit in line with Standards for Training Packages, with the following further changes:Revised performance criteria:* PC1.3 covering signs and barricades deleted as not relevant to unit
* PC1.5 covering environmental requirements deleted as not relevant to unit
* PC2.3 covering applying levelling staffs deleted as it is covered by element 2
* PC1.5 added to cover team roles and use of verbal and non-verbal communication
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCCM2010 Work safely on scaffolding higher than two metres | CPCCCM2010B Work safely at heights | Unit replaces superseded unit: CPCCCM2010B.Redesigned unit in line with Standards for Training Packages, with the following further changes: * changed title and application to better reflect unit outcome and working on heights above two metres
* element 4 added
* changes to performance criteria
* new performance criteria added
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCCM3001 Operate elevated work platforms up to 11 metres | CPCCCM3001C Operate elevated work platforms | Unit replaces superseded unit: CPCCCM3001C.Redesigned unit in line with Standards for Training Packages, with the following further changes:* changed title to clarify height limit for unit work
* PC1.3 removed and its outcomes included in range of conditions item relating to safe work method statements (SWMS)
* PC1.6 removed and its outcomes included in range of conditions item relating to SWMS and the performance evidence
* PC1.7 added covering verbal and non-verbal communication
* minor changes to other performance criteria for clarity
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCCM3003 Work safely around electrical sources, services and assets | CPCCCM3003A Work safely around power sources, services and assets | Unit replaces superseded unit: CPCCCM3003A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* minor change to unit title to reflect current terminology
* specific reference to underground services in application and PC2.1
* PC1.3 covering signs and barricades deleted and included in range of conditions item relating to health and safety
* PC1.5 covering environmental requirements deleted and covered in knowledge evidence for environmental requirements relevant to the work site and job task
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCCM3004 Identify and apply information in construction plans, drawings and specifications | NA | New unit. |  |
| CPCCCM3005 Calculate costs of construction work | CPCCCM2003B Calculate and cost construction work | Unit replaces superseded unit: CPCCCM2003B.Redesigned unit in line with Standards for Training Packages, with the following further changes:* changed title to better reflect unit outcome
* minor changes to performance criteria:
* PC1.6 added to cover currency and accuracy of information obtained and checked
* PC2.4 added to cover inclusion of other project-specific costs
* PC3.4 expanded to include application of profit margin when calculating final cost of work
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCCM3006 Carry out levelling operations | CPCCCA3023A Carry out levelling operations | Unit replaces superseded unit: CPCCCA3023A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* change to competency field identifier of unit code from CCA to CCM
* minor changes to:
* element 3
* performance criteria
* range of conditions
* revised assessment requirements.
 | E |
| CPCCJN3001 Process materials to produce components using static machines | CPCCJN3001A Use static machines | Unit replaces superseded unit: CPCCJN3001A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* changed title
* knowledge-based element 2 deleted as already covered in element 1 and knowledge evidence
* element 3 deleted and content treated as follows:
* one performance criterion added to element 1 to cover preparation of machine
* one performance criterion added to the new element 3
* other content already covered under work health and safety (WHS) requirements
* new element 2 added covering preparing materials for machining
* minor changes to other performance criteria and range of conditions
* revised assessment requirements.
 | E |
| CPCCWC3004 Install suspended ceilings | CPCCWC3004A Install suspended ceilings | Unit replaces superseded unit: CPCCWC3004A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* minor change to element 2 wording
* PC1.3 and PC1.7 deleted as they are covered in the range of conditions for job requirements
* minor changes to other performance criteria
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3001 Design and lay out digital signs for production | CPCCSI2002A Lay out and design signageCPCCSI3016A Produce digital signage using advanced software applications | Unit replaces two superseded units: CPCCSI2002A and CPCCSI3016A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* CPCCSI2002A:
* elements and performance criteria reworded and covered in new unit
* CPCCSI3016A:
* PC4.4 relating to masked objects deleted and covered in range of conditions item relating to contouring techniques
* PC4.6 covering image storage requirements deleted and covered in PC7.3
* PC5.2 covering colour profiles deleted and included in range of conditions item relating to document parameters
* PC5.4 deleted
* PC5.5 deleted and incorporated into PC7.3
* new element 6 and associated performance criteria added to cover obtaining client approval
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3002 Produce and apply vinyl signs | CPCCSI3001A Produce vinyl signageCPCCSI3004A Apply advanced vinyl applications | Unit replaces two superseded units: CPCCSI3001A and CPCCSI3004A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* CPCCSI3001A:
* the following performance criteria deleted as all are covered in job requirements: PC1.1 covering quality assurance, PC1.4 covering drawings, PC1.9 covering colour selected, PC1.11 covering application of materials, and PC1.12 covering materials shrinkage
* PC1.6 covering product range deleted and reference to Australian standards moved to knowledge evidence
* PC1.8 covering identification and preparation of substrates now included in PC3.1
* PC3.8 added to cover applying correct heights and levels
* CPCCSI3004A deleted as its outcomes duplicated those of CPCCSI3001A
* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSG3003 Colour manage signs | CPCCSI2001A Use colour for signage | Unit replaces superseded unit: CPCCSI2001A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* changed title
* revised elements and performance criteria
* PC2.3 deleted and added to knowledge evidence
* PC3.1 deleted and incorporated into new element covering maintaining colour management systems
* PC2.3 and PC2.4 added to cover production of test prints and performing colour corrections
* revised range of conditions: added contrast, colour matching systems and profiling
* revised assessment requirements.
 | N |
| CPCCSG3004 Print digital signs | CPCCSI2004A Produce digital signageCPCCSI3016A Produce digital signage using advanced software applications | Unit replaces two superseded units: CPCCSI2004A and CPCCSI3016A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* PC1.3 added to cover workflow
* PC1.5 added to cover health and safety requirements
* PC3.6 added to cover test prints
* PC4.3 and PC4.4 added to cover checking and storing laminated sign
* CPCCSI2004A:
* the following performance criteria deleted as all are covered as part of job requirements: PC1.1 covering quality requirements, PC1.4 covering product range, PC1.7 covering application of materials, and PC1.8 covering material shrinkage
* element 4 and associated performance criteria covering managing colour deleted as content covered in CPCCSG3003
* CPCCSI3016A:
* PC1.2 covering type of signage application deleted as all are covered as part of job requirements
* elements 3 and 4 covering vector and raster images deleted as not relevant to unit; content included in CPCCSG3001
* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSG3005 Engrave signs | CPCCSI3005A Use engraving systems | Unit replaces superseded unit: CPCCSI3005A.Redesigned unit in line with Standards for Training Packages, with the following further changes:changed titlerevised elements and performance criteria for clarity:* PC1.1 deleted and incorporated into range of conditions item relating to job requirements
* PC1.4 covering selection of product range deleted
* PC1.7 and PC1.8 relating to temporary or permanent application of materials and potential for shrinkage deleted as these are part of quality requirements in job requirements
* new element 2 added to cover setting up hardware and software
* more detail provided than in previous unit content by covering testing for connections, entering specifications into software, and setting up engraving hardware
* new element 4 added to cover requirements for finishing engraved sign
* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSG3006 Apply gilding to signs | CPCCSI3006A Apply gilding to signage | Unit replaces superseded unit: CPCCSI3006A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* minor change to title
* revised elements and performance criteria:
* PC1.1 deleted
* PC1.5 deleted and covered in knowledge evidence for techniques for measuring and setting out layout of sign
* PC1.6 deleted and incorporated into knowledge evidence for range and use of gilding materials
* PC1.9 covering routine maintenance deleted and incorporated into PC5.2
* PC1.10 covering shrinkage deleted
* PC3.2 deleted and covered in range of conditions item relating to health and safety
* PC6.1 and PC6.2 merged and covered in PC5.1 covering cleaning and waste management
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3007 Paint lines and scrolls | CPCCSI3007A Apply lines and scrolls | Unit replaces superseded unit: CPCCSI3007A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* changed title
* revised elements and performance criteria:
* PC1.5 and PC1.6 moved to element 2 covering set out design layout
* PC1.10 covering safety data sheets deleted and covered in knowledge evidence
* new PC2.3 added to cover identifying and rectifying errors in set-out, which was previously in required skills
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3008 Hand draw chalkboards and showcards | CPCCSI3008A Write showcards and chalkboards | Unit replaces superseded unit: CPCCSI3008A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* changed title
* revised elements and performance criteria:
* PC1.1 deleted as it is covered in job requirements
* PC2.1 deleted and reference to Australian standards covered in knowledge evidence
* PC2.2 and PC3.3 deleted and covered in knowledge evidence for principles and application of theories of laying out signs
* PC3.1 selection of materials and equipment deleted as covered in element 1
* PC3.2 deleted and covered in knowledge evidence for surface compatibility
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3009 Screen-print signs | CPCCSI3009A Screen-print signage | Unit replaces superseded unit: CPCCSI3009A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* minor change to title
* revised elements and performance criteria:
* PC1.1, PC1.4 and PC1.5 covering quality assurance and use of drawings deleted as included as part of job requirements
* PC1.6 covering product range deleted and Australian standards moved to knowledge evidence
* PC1.12 covering use of safety data sheets deleted and covered in knowledge evidence
* PC1.13 covering equipment maintenance deleted and covered in PC3.2
* PC2.2 covering preparation of paint or ink deleted and covered in tools and equipment preparation in PC1.2
* PC3.1 deleted and partially covered in new PC2.6 which was added to cover checking the finished sign for accuracy and consistency against job requirements
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3010 Hand render pictorials | CPCCSI3010A Hand render pictorials | Unit replaces superseded unit: CPCCSI3010A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* revised elements and performance criteria:
* PC1.1 covering quality requirements deleted and covered as part of job requirements
* PC1.9 covering safety data sheets deleted and moved to knowledge evidence
* PC1.10 covering equipment maintenance deleted and covered in PC4.2
* PC2.1 covering preparation of substrates and materials deleted as covered in PC1.4 and PC1.5
* PC2.2 covering compatibility of surfaces deleted and moved to knowledge evidence for compatibility of surfaces with paints, solvents and mediums
* PC2.3 covering colour combinations deleted and moved to knowledge evidence theory and processes used in colour selection for sign-writing
* PC2.4 covering methods of transferring and reproducing pictorials deleted and moved to knowledge evidence as paint application techniques relating to hand rendering pictorials
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3011 Install LED technology into signs | CPCCSI3011A Use LED technology for signageCPCCSI3012A Apply electrical theory for illuminated signageCPCCSI3013A Install LED systems | Unit replaces three superseded units: CPCCSI3011A, CPCCSI3012A and CPCCSI3013A.Redesigned unit in line with Standards for Training Packages, with the following further changes:application and assessment requirements expanded to include different type of lighting effects being halo lit and face illuminated* CPCCSI3011A:
* PC1.1 covering quality assurance, PC1.7 covering application of materials, and PC2.5 covering expected lifetime of LED systems deleted and incorporated into PC1.1 job requirements
* PC1.4 covering product range deleted and Australian standards moved to knowledge evidence
* PC1.6 covering maintenance of equipment deleted and incorporated into PC1.3 covering tools, equipment and materials
* PC1.8 covering shrinkage of material deleted as not relevant to unit
* PC2.1 and PC2.2 covering identifying LED systems, deleted and covered in PC2.1 covering selection and preparation of LED system
* PC2.3 covering semi-conductor chip technology moved to knowledge evidence
* PC2.6 covering regulation of electrical current feed moved to knowledge evidence
* PC2.7 covering managing heat moved to knowledge evidence
* CPCCSI3012A incorporated into knowledge evidence
* CPCCSI3013A:
* PC1.1 covering quality assurance and PC1.7 covering application of materials deleted and incorporated into PC1.1 job requirements
* PC1.2 covering product range deleted and Australian standards moved to knowledge evidence
* PC1.6 covering maintenance of equipment deleted and incorporated into PC1.3 covering tools, equipment and materials
* PC2.1 covering selection of materials deleted and incorporated into PC1.3 covering tools, equipment and materials
* performance criteria 2.2, 2.3 and 2.4 deleted
* element 3 and its associated PCs covering routing systems and installing LED lights incorporated into elements 3 and 4
* PC1.5 added to cover identifying statutory and local authority requirements for display of illuminated sign
* PC2.2 added to cover calculating required number of transformers for the task
* PC3.1 added to cover initial cleaning and check of sign to be free of damage
* PC4.2 added to cover testing of module wires and rectifying faults
* new element 5 and associated performance criteria added to cover positioning sign, checking for consistency in illumination, and rectifying any faults
* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSG3012 Fabricate signs | CPCCSI2005A Fabricate signageCPCCSI3002A Use rotary router | Unit replaces two superseded units: CPCCSI2005A and CPCCSI3002A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* PC1.5 expanded to require calculation of material quantities
* new PCs added:
* PC1.6 to cover sourcing and checking materials
* PC1.7 to cover identifying need for specialist skills to ensure structural integrity of sign
* PC3.1 to cover attaching fastenings and fixings to sign
* PC4.2 to cover checking sign for accuracy against job requirements and rectifying imperfections
* PC4.3 to cover testing structural integrity of sign
* CPCCSI2005A:
* PC1.1 covering quality requirements, PC1.4 covering product range and PC1.7 covering application of materials deleted as these are covered in job requirements
* PC1.6 deleted and covered in PC5.2 as part of maintenance of tools and equipment
* CPCCSI3002A deleted and content included as knowledge evidence of new unit
* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSG3013 Paint letters and decorative effects for signs | CPCCSI2006A Signwrite to simple formsCPCCSI3003A Signwrite to decorative forms | Unit replaces two superseded units: CPCCSI2006A and CPCCSI3003A.Previous units were identical except for PC4.1 in CPCCSI2006A, which covered ‘simple alphabets’ and PC4.1 in CPCCSI3003A which covered ‘decorative alphabets’. These performance criteria are now deleted and content covered in knowledge evidence for characteristics, style and sign-writing techniques for simple alphabets and decorative alphabets.Elements and performance criteria of both units covered in CPCCSG3013 but reworded for clarity and in line with Standards for Training Packages, with the following further changes:* new PC3.4 added to cover identifying errors in paint application and rectifying throughout the sign writing process
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3014 Manufacture gas-charged glass-formed illuminated signs | CPCCSI3014A Manufacture gas-charged glass-formed illuminated signage | Unit replaces superseded unit: CPCCSI3014A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* PC1.1, PC1.4 and PC1.9 covering quality requirements, use of designs, and application of materials deleted as these are part of the job requirements
* PC1.5 covering layout deleted and incorporated into expanded PC2.1 that includes the use of fire retardant sheeting for layout purposes
* PC1.8 covering equipment maintenance deleted and covered in PC6.3
* PC2.1 covering direct and indirect layout methods deleted and moved to knowledge evidence
* PC6.1 and PC6.2 covering attaching neon sign merged to form PC6.1
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3015 Produce airbrushed signs | CPCCSI3015A Produce airbrushed signage | Unit replaces superseded unit: CPCCSI3015A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* minor change to title
* new PC1.6 added to cover health and safety requirements
* element 2 deleted
* PC2.1 covered in PC1.4, which covers selection of tools and equipment, while different types of airbrushes are covered in knowledge evidence as characteristics and applications of different airbrushes
* PC2.2 deleted as selection of components and accessories is covered in PC1.4, while different types of components and accessories are covered in knowledge evidence as types of airbrushes, components and accessories used in airbrushed sign work
* PC2.3 covering checking function and security of fittings deleted and incorporated into PC1.4 covering selection of tools and equipment
* PC3.1 covering identification of masks deleted and covered in PC2.1 preparation and use of adhesive masks
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3016 Prepare surfaces for signs | CPCCSI2003A Prepare surfaces for signage | Unit replaces superseded unit: CPCCSI2003A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* minor change to title
* revised elements and performance criteria
* PC1.1 and PC1.8 covering quality and application of materials deleted and covered as job requirements
* PC1.4 deleted as considered not relevant to unit
* PC1.7 covering equipment maintenance deleted and covered in PC4.4
* elements 3, 4 and 5 merged to form new element 4
* new unit has the following added performance criteria: 1.4 covering placement of drop sheets; 1.5 covering PPE, 1.6 covering erection of signs and barricades; 2.1 covering assessing condition of surface and 2.2 covering sanding of surface if required
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSG3017 Erect and install signs  | CPCCSI2007A Apply fasteners and fixings | Unit replaces superseded unit: CPCCSI2007A.* application extended to cover signs that are freestanding and secured to a surface
* new elements and performance criteria added
* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSH3001 Fabricate shopfitting components using CNC machines | NA | New unit. |  |
| CPCCSH3002 Fabricate and assemble shopfront structures  | CPCCSH2002A Use aluminium sections for fabricationCPCCSH3002A Set out and fabricate shopfront commercial entries bulkheads and component fittings | Unit replaces two superseded units: CPCCSH2002A and CPCCSH3002A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* CPCCSH2002A:
* elements 1, 2, 3, 4 and 5 incorporated into CPCCSH3002 as aluminium materials must be included in fabrication of shopfronts
* CPCCSH3002A:
* element 2 incorporated into new element 1
* element 3 used in new element 4
* added element covering fabrication of components off-site
* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSH3003 Assemble and install shopfront structures | CPCCSH3003A Assemble and install shopfront commercial entries bulkheads and components | Unit replaces superseded unit: CPCCSH3003A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* changed title
* elements 2 and 3 combined
* minor changes to other elements and performance criteria to increase clarity
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSH3004 Assemble internal shopfitting units and prepare for transport | CPCCSH3001A Set out and assemble cabinets, showcases, wall units, counters and workstations | Unit replaces superseded unit: CPCCSH3001A.CPCCSH3004 covers assembly of units only and is based on elements 5, 6, 7 and 8 from CPCCSH3001A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSH3005 Apply and trim decorative additions to shopfittings and components | CPCCSH3005A Apply and trim decorative finishes | Unit replaces superseded unit: CPCCSH3005A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* changed title
* element 2 changed from knowledge-based performance criteria to cover setting out and cutting decorative add-ons prior to fixing
* minor changes to other elements and performance criteria to increase clarity
* revised range of conditions
* revised assessment requirements.
 | E |
| CPCCSH3006 Prepare shopfittings and surfaces and apply liquid finishes | CPCCSH2001A Prepare surfacesCPCCSH3006A Apply finishes | Unit replaces two superseded units: CPCCSH2001A and CPCCSH3006A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* CPCCSH2001A:
* elements 2 and 3 combined to form new element 2
* CPCCSH3006A:
* element 2 covered in knowledge evidence
* elements, 3, 4 and 5 rewritten into new elements 3 and 4
* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSH3007 Install prefabricated internal shopfitting units | NA | New unit. |  |
| CPCCSH3008 Install internal shop walls and fixtures | CPCCCA3013A Install lining, panelling and mouldingCPCCCA3015A Assemble partitions | Unit replaces two superseded units: CPCCCA3013A and CPCCCA3015A.Redesigned unit in line with Standards for Training Packages, with the following further changes:* unit combines and adapts content to shop-fitting context
* CPCCCA3013A:
* elements 2 and 3 combined into new element 2 with added wall framing component
* element 4 adapted to new element 4
* CPCCCA3015A:
* elements 2 and 3 combined to form new element 3
* revised range of conditions
* revised assessment requirements.
 | N |
| CPCCSH3009 Demolish shopfronts and bulkheads | NA | New unit. |  |
| CPCCSH3010 Prepare shop floors for new coverings | NA | New unit. |  |
| CPCCWHS3001 Identify construction work hazards and select risk control strategies | NA | New UnitRemoved the prerequisite unit requirement CPCCOHS2001A. It was agreed by the Project Reference Groups (PRG) that health and safety requirements would be embedded, where appropriate, in individual units of competency to ensure candidates are assessed against the specific health and safety requirements of particular work tasks. The PRGs also agreed that a new work health and safety (WHS) unit at AQF level three should be added to the qualifications to reflect the nature and level of the WHS skills and knowledge required at trade level in the construction industry. |  |
| **Release 1.0** |
| CPCCBS6001 Research and evaluate construction methods and materials for residential buildings to three storeys | CPCCSV6005A Evaluate services layout and connection methods for residential and commercial buildings up to three storeysCPCCSV6006A Evaluate the use of concrete for residential and commercial buildings up to three storeysCPCCSV6015A Analyse and present building surveying research information | New unit based on:CPCCSV6005A Evaluate services layout and connection methods for residential and commercial buildings up to three storeysCPCCSV6006A Evaluate the use of concrete for residential and commercial buildings up to three storeysCPCCSV6015A Analyse and present building surveying research information. | N |
| CPCCBS6002 Research and evaluate construction methods and materials for commercial buildings to three storeys | CPCCSV6006A Evaluate the use of concrete for residential and commercial buildings up to three storeys | New unit based on:CPCCSV6006A Evaluate the use of concrete for residential and commercial buildings up to three storeys. | N |
| CPCCBS6003 Apply legal and ethical requirements to building surveying functions | CPCCSV6011A Apply legal procedures to building surveying | New unit based on:CPCCSV6011A Apply legal procedures to building surveying | N |
| CPCCBS6004 Assess and advise on compliance of design documentation for residential buildings to three storeys | CPCCSV6008A Apply building codes and standards to buildings up to three storeysCPCCSV6016A Apply building surveying procedures to buildings up to three storeys | New unit based on:CPCCSV6008A Apply building codes and standards to buildings up to three storeysCPCCSV6016A Apply building surveying procedures to buildings up to three storeys. | N |
| CPCCBS6005 Assess and advise on compliance of design documentation for commercial buildings to three storeys | NA | New Unit |  |
| CPCCBS6006 Process planning applications for residential buildings up to three storeys | NA | New Unit |  |
| CPCCBS6007 Process planning applications for commercial buildings up to three storeys | NA | New unit. |  |
| CPCCBS6008 Process building applications for residential buildings up to three storeys | CPCCSV6016A Apply building surveying procedures to buildings up to three storeys | New unit based on:CPCCSV6016A Apply building surveying procedures to buildings up to three storeys. | N |
| CPCCBS6009 Process building applications for commercial buildings up to three storeys | NA | New unit. |  |
| CPCCBS6010 Conduct and report on building surveying audits of residential buildings up to three storeys | CPCCSV6001A Assess the construction of buildings up to three storeys CPCCSV6003A Assess construction faults in buildings up to three storeys | New unit based on:CPCCSV6001A Assess the construction of buildings up to three storeys CPCCSV6003A Assess construction faults in buildings up to three storeys. | N |
| CPCCBS6011 Conduct and report on building surveying audits of commercial buildings up to three storeys | NA | New unit. |  |
| CPCCBS6012 Conduct and report on initial construction inspections of residential buildings up to three storeys | CPCCSV6004A Apply footing and geomechanical design principles to buildings up to three storeysCPCCSV6007A Assess structural requirements for buildings up to three storeys | New unit based on:CPCCSV6004A Apply footing and geomechanical design principles to buildings up to three storeysCPCCSV6007A Assess structural requirements for buildings up to three storeys. | N |
| CPCCBS6013 Conduct and report on initial construction inspections of commercial buildings up to three storeys | CPCCSV6004A Apply footing and geomechanical design principles to buildings up to three storeysCPCCSV6007A Assess structural requirements for buildings up to three storeys | New unit based on:CPCCSV6004A Apply footing and geomechanical design principles to buildings up to three storeysCPCCSV6007A Assess structural requirements for buildings up to three storeys. | N |
| CPCCBS6014 Conduct and report on advanced and final inspections of residential buildings up to three storeys | NA | New unit. |  |
| CPCCBS6015 Conduct and report on advanced and final inspections of commercial buildings up to three storeys | NA | New unit. |  |
| CPCCBS6016 Assess and advise on performance-based solutions for buildings up to three storeys | CPCCSV6009A Implement performance-based codes and risk management principles for buildings up to three storeysCPCCSV6010A Apply fire technology to buildings up to three storeys | New unit based on:CPCCSV6009A Implement performance-based codes and risk management principles for buildings up to three storeysCPCCSV6010A Apply fire technology to buildings up to three storeys. | N |
| CPCCBS6017 Monitor and advise on construction and compliance upgrade work on buildings up to three storeys | CPCCSV6013A Coordinate building refurbishment | New unit based on:CPCCSV6013A Coordinate building refurbishment. | N |
| CPCCBS8001 Manage building surveying risks and ensure compliance with ethical and professional standards | NA | New unit. |  |
| CPCCBS8002 Manage information on construction methods, materials and services for a building surveying team | NA | New unit. |  |
| CPCCBS8003 Manage information on compliance requirements for a building surveying team | NA | New unit. |  |
| CPCCBS8004 Advise on compliance of building design documentation | NA | New unit. |  |
| CPCCBS8005 Manage planning approval processes for all building types | NA | New unit. |  |
| CPCCBS8006 Manage building approval processes for all building types | NA | New unit. |  |
| CPCCBS8007 Monitor building work and advise on compliance issues | NA | New unit. |  |
| CPCCBS8008 Conduct and manage the completion of building inspections and audits | NA | New unit. |  |
| CPCCBS8009 Lead a building surveying team | NA | New unit. |  |
| CPCCBS8010 Liaise and coordinate with head contractors on building projects | NA | New unit. |  |
| CPCCBS8011 Assess and advise on performance-based solutions for all types of buildings | NA | New unit. |  |
| CPCCLBM3001 Licence to operate a concrete placing boom | CPCCLBM3001A Licence to operate a concrete placing boom | Unit replaces superseded unit: CPCCLBM3001A.Redesigned unit in line with Standards for Training Packages. | E |
| CPCMCM8001 Plan and manage complex projects | CPCMCM7001A Plan and manage complex projects | Redesigned unit in line with Standards for Training Packages. | E |
| CPCMCM8002 Manage the quality of projects and processes | CPCMCM7002A Manage the quality of projects and processes | Redesigned unit in line with Standards for Training Packages. | E |
| CPCSFS8001 Define scope of and initiate special hazard fire systems design projects | CPCSFS7001A Define scope of and initiate special hazard fire systems design projects | Redesigned unit in line with Standards for Training Packages. | E |
| CPCSFS8002 Analyse, design and evaluate complex special hazard fire systems | CPCSFS7002A Analyse, design and evaluate complex special hazard fire systems | Redesigned unit in line with Standards for Training Packages. | E |
| CPCSFS8003 Develop and submit tenders for fire systems design solutions | CPCSFS7003A Develop and submit tenders for fire systems design solutions | Redesigned unit in line with Standards for Training Packages. | E |

## Qualification mapping information

The mapping table below details the qualifications in the CPC Construction, Plumbing and Services Training Package with comments on about their relationship to qualifications in the CPC08 Construction, Plumbing and Services Training Package.

| **Construction, Plumbing and Services Training Package Qualifications**  |
| --- |
| **Code and title** | **CPC08 Construction, Plumbing and Services Training Package** | **Comments** | **Equivalence statement** |
| **Release 4.0** |
| CPC30318 Certificate III in Concreting | CPC30313 Certificate III in Concreting | Supersedes and replaces CPC30313 Certificate III in Concreting.The *CPCCCO3053 Slump‑test concrete* has been incorporated to core. The package rules were amended to reflect this change. The core units change from 14 t 15 units of competency. The total number of units remain the same. The qualification was updated to the meet the Standards for Training Packages 2012. | E |
| **Release 2.0** |
| CPC30116 Certificate III in Shopfitting | CPC31812 Certificate III in Shopfitting | Qualification replaces superseded qualification: CPC31812.Total number of required units of competency reduced from 30 units (19 core and 11 elective units) to 17 units (11 core and 6 elective units). | N |
| CPC30216 Certificate III in Signs and Graphics | CPC32111 Certificate III in Signage | Qualification replaces superseded qualification: CPC32111.Total number of required units of competency reduced from 21 (14 core and 7 elective units) to 16 units (7 core and 9 elective units). | N |
| **Release 1.0** |
| CPC60115 Advanced Diploma of Building Surveying | CPC60108 Advanced Diploma of Building Surveying | Revised qualification deemed not equivalent to CPC60108.Qualification packaging amended.All CPC60108 units of competency reviewed, redeveloped and deemed not equivalent.Relevant content from the now deleted CPC50108 Diploma of Building Surveying integrated as appropriate into CPC60115 units.New units developed. | N |
| CPC80115 Graduate Certificate in Fire Systems Design Management | CPC70109 Graduate Certificate in Fire Systems Design Management | Revised qualification title in line with AQF requirements.Redesigned qualification and associated units of competency to meet Standards for Training Packages | E |
| CPC80215 Graduate Diploma of Building Surveying |  | New qualification. | NA |

##

## Skill sets mapping information

The mapping table below details the skill sets in the CPC Construction, Plumbing and Services Training Package, with comments about its relationship to skill sets in the CPC08 Construction, Plumbing and Services Training Package.

|  |
| --- |
| **CPC Construction, Plumbing and Services Training Package Skill Sets** |
| **Code and title** | **CPC08 Construction, Plumbing and Services Training Package** | **Comments** | **Equivalence statement** |
| **Release 1.0** |
| CPCSS00004 Provide building surveying services for residential buildings up to three storeys | NA | New skill set. | NA |

##

## Imported units

The table below lists imported units in the CPC Construction, Plumbing and Services Training Package qualifications and their parent training package.

|  |
| --- |
| **Imported units of competency**  |
| **Code** | **Title** | **Parent Training Package Code** |
| AURVTP009 | Apply vehicle body film wrapping | AUR |
| BSBSMB301 | Investigate micro business opportunities | BSB |
| BSBSMB421 | Manage small business finances | BSB |
| CPCCLHS3001A | Licence to operate a personnel and materials hoist | CPC08 |
| CPCCLSF2001A | Licence to erect, alter and dismantle scaffolding basic level | CPC08 |
| MEM05049B | Perform routine gas tungsten arc welding | MEM05 |
| MEM05050B | Perform routine gas metal arc welding | MEM05 |
| MSFFF2006 | Apply surface coatings by spray gun | MSF |
| [MSFFM3009](file:///C%3A/Training/Details/MSFFM3009) | Produce manual and computer-aided production drawings | MSF |
| MSFFM3011 | Measure and draw site layout for manufactured furniture products | MSF |
| MSFFM3020 | Fabricate synthetic solid surface products | MSF |
| MSFFM3022 | Set up, operate and maintain computer numerically controlled (CNC) machining and processing centres | MSF |
| MSFGG3036 | Install commercial glazing products | MSF |

##

## Prerequisites

Individual prerequisite requirements specified in a unit of competency must be assessed and achieved prior to a learner being assessed in the unit that has the prerequisite.

| Prerequisite units of competency |
| --- |
| Code | Title | Prerequisite Code | Prerequisite Title |
| CPCCCA2003 | Erect and dismantle formwork for footings and slabs on ground | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCA3001 | Carry out general demolition of minor building structures | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCM2007 | Use explosive power tools | CPCCWHS2001 | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCM2008 | Erect and dismantle restricted height scaffolding | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO2021 | Handle concreting materials | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO2022 | Select, check and maintain concreting plant, tools and equipment  | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3035 | Assess and specify concrete supply requirements | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3036 | Plan concrete work and brief team | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3041 | Place concrete | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3042 | Finish concrete | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3043 | Cure concrete | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3044 | Apply decorative finishes to concrete | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3046 | Repair and rectify concrete | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3047 | Cut and core concrete | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3048 | Construct tilt panels on site | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3049 | Apply and finish sprayed concrete | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3050 | Carry out high performance concreting | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3051 | Conduct off-form vertical concrete operations | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3052 | Conduct concrete boom delivery operations | CPCCWHS2001 | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3053 | Slump‑test concrete | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3054 | Operate concrete agitator trucks | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCCO3055 | Install topping slabs | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCSF2003 | Cut and bend materials using oxy-LPG equipment | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCSF2004 | Place and fix reinforcement materials | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |
| CPCCSF3001 | Apply reinforcement schedule | CPCCWHS2001  | Apply WHS requirements, policies and procedures in the construction industry |

## Key work and training requirements in the industry

**Concreting**

Concreting is not a licensed occupation. Concrete workers who are employed by concrete contractors do not need to be licensed. Licensing requirements may apply for concrete contractors in different states and territories.

Licensing, legislative, regulatory or certification requirements apply to some concreting units of competency in all states and territories except Tasmania. Further detail is provided in the units of competency.

Relevant state and territory regulatory authorities should be consulted to confirm these requirements.

*CPCWHS1001 Prepare to work safely in the construction industry*

Completion of the general construction induction training requirements of the Model Work Health and Safety Regulations 2011 and relevant occupational health and safety regulations for Victoria and for Western Australia is required before entering a construction work site.

Achievement of *CPCCWHS1001 Prepare to work safely in the construction industry* covers these induction-training requirements.

Concreters pour, spread, smooth and finish concrete structures such as floors, stairs, ramps, footpaths and bridges.

Tasks include:

* erecting concrete form work and laying steel reinforcing
* erection of falsework and framework
* pouring, spreading and levelling concrete using screeds and templates
* tamping, smoothing, shaping and sealing concrete
* reinforcement and fixing
* operating trowelling machines to float, trowel and polish concrete surfaces
* forming expansion joints and edges using edging tools, jointers and straight edges
* installing fixtures in concrete such as anchor bolts, steel plates and door sills
* wetting concrete and rubbing with abrasives to finish vertical surfaces
* covering concrete with plastic sheeting and sand to cure it
* cutting lines in concrete using power cutters
* may cover freshly poured concrete with colouring powders and other materials.

Job titles include:

* Concreter
* Concrete Worker
* Concrete Pump Operator
* Concrete Tilt Panel Fabricator.

The construction industry strongly affirms that training and assessment leading to recognition of skills must be undertaken in an actual or very closely simulated workplace environment and the CPC30318 Certificate III in Concreting requires all units of competency to be delivered in this context.

**Building surveying**

Building surveyors play a vital role in ensuring the integrity and compliance of the nation’s buildings. They oversee, to varying levels, the work of other professionals in the construction industry.

Building surveyors must assess and verify that proposed and actual building works satisfy compliance requirements that extend to energy efficiency, fire safety, access to premises for people with disabilities and processes to ensure safe work environments, such as the management of asbestos in buildings.

In addition, depending on the role of the building surveyor and the requirements of the authority issuing permits, building surveyors may also need to understand and respond to requirements of specific buildings, including those with heritage values or where food safety or public safety and amenity are of concern and codified.

Building surveyors must have a thorough understanding of complex planning and legislative requirements, as well as building codes and standards.

Their role bears significant professional risk and is central to ensuring that the community is well‑served by the buildings that are constructed within it.

Increasingly, experienced building surveyors also offer consulting advice to property developers and builders about strategies to ensure compliance with federal and state/territory building legislation and local planning policies. Practitioners must also be aware of their legal and ethical responsibilities, ensuring that there is no conflict of interest when they provide code-consulting advice and, where conflict exists, excluding themselves from undertaking certification responsibilities for those projects.

**Fire system design**

This small, niche sector is of great importance, given the vital work fire system designers do in ensuring public safety, and the protection of human life and built assets.

The National Fire Industry Association (NFIA) and the Fire Protection Association Australia (FPAA) played a central and active role in the project steering committee for this release, not only in the development of the original fire systems design qualification and units of competency but also in CPC80115 Graduate Certificate in Fire Systems Design Management, which has been redesigned to ensure compliance with the national Standards for Training Packages. This redesign of the qualification has also included revising the qualification’s title in line with AQF requirements, which no longer include the word ‘vocational’ in graduate qualifications.

**Shopfitting**

The shopfitting industry completes the range of tasks required to manufacture and fit out retail and commercial shops. The manufacture of components is often undertaken in an off-site facility, with manufactured components brought to site and assembled and installed on site.

The industry relies on traditional carpentry and joinery skills, but the requirements for quality and durable outcomes and the need to work to tight timeframes, often alongside a number of other trades, adds to the complexity and challenges of shopfitting work.

Shop fitouts are often designed to last up to five years and must be able to tolerate considerable exposure to wear and tear due to the volume of human traffic.

**Signs and graphics**

The signs and graphics industry has undergone rapid change in the past five to ten years resulting from technological advancements, notably in graphic design software and in the speed and capacity of printing equipment and techniques.

Advances in light emitting diode (LED) technology have seen a proliferation of high-tech digital signage campaigns by both small and large enterprises keen to keep advertising of their product or service illuminated at all hours of the day and night.

The demand for more traditional sign‑making techniques including gilding, airbrushing, painting decorative lines and scrolls, and to some extent the fabrication of signs, is still present but is a reduced share of the signage business today compared to previous years. More often, the use of traditional sign‑making techniques is seen in small or owner-operator businesses that often provide, for example, hand painting for hot rod cars or other vehicle sign work, corporate logos and signs for retail shops.

**Insulation installation**

The outcome of the Royal Commission into the Home Insulation Program (HIP) 2014 identified key areas of concern including poor to no work health and safety/occupational health and safety induction training, poor supervision and lack of understanding about the skills and knowledge required for the role of an insulation installer, and lack of understanding of the variety of insulation products available and their appropriate use.

Therefore, the units *CPCCPB3014 Install bulk insulation and pliable membrane products* and *CPCCPB3027 Install ceiling insulation products* have been redesigned, including new titles, to ensure that they comprehensively cover the skills and safety requirements to install insulation products. Industry supported the redesign of the elective units as they more clearly align with the work undertaken by installers of insulation and also reflect the requirements of the Australian Standard (AS) 3999 Thermal insulation of dwellings – Bulk insulation – Installation requirements.

## Regulation and licensing requirements implications for implementation

**Building surveying**

Building surveying is subject to various and different licensing requirements across the states and territories. It is likely that following the inclusion of building surveying qualifications into CPC Construction, Plumbing and Services Training Package Release 1.0, licensing requirements will be revised by the various state regulators. RTOs and other users will need to contact the relevant regulatory authority when seeking advice for learners for licensing purposes.

**Fire system design managers**

At the time of endorsement of CPC Construction, Plumbing and Services Training Package Release 1.0, no licensing, legislative, regulatory, accreditation or certification requirements apply to CPC80115 Graduate Certificate in Fire Systems Design Management.

Fire systems design managers, companies and personnel must comply with environmental, industrial and work health and safety (WHS) legislation and regulations.

**Shopfitting**

Licensing requirements apply to shopfitting in some states and territories.

**Signs and graphics**

Signs and graphics is not a licensed occupation; however, sign manufacturers installing LED technology into signs must ensure that the LED lighting is below 240 volts. Should lighting be above 240 volts, relevant state and territory regulatory authorities should be consulted to confirm the licensing, legislative, regulatory or certification requirements that apply.

**Insulation installation**

Contractors do need to be licensed in some states and territories, however, there is no requirement to achieve the insulation units of competency for licensing purposes. A number of jurisdictions have introduced or are considering accreditation processes, and it is therefore advised to periodically review licensing arrangements in relevant jurisdictions.

The Clean Energy Council has, in partnership with industry, established an accreditation process for installers of insulation of which the insulation units of competency are a major component.

The industry, in partnership with the Wall and Ceiling Association, has established a national training program aimed at encouraging people working in the industry or planning to work in the industry to become accredited.

**Persons working on construction sites**

Under WHS legislation in Australia, all persons working on construction sites must successfully undertake general construction induction training and be issued with a ‘White Card’ or other proof of successful training achievement before they are permitted to enter a construction site.

WHS induction training is mandatory for all persons conducting construction work in recognition of the high-risk nature of construction sites. It does not replace or remove the need for a full site induction for each new worker going on site.

This mandatory WHS induction training is covered in the CPC Construction, Plumbing and Services Training Package by the unit of competency *CPCCWHS1001 Prepare to work safely in the construction industry*.

The unit meets the general construction induction training requirements of:

* Part 1.1 Definitions and Part 6.5 of the Model Work Health and Safety Regulations; Division 11 of Part 3 of the Occupational Safety and Health Regulations 1996 for Western Australia and
* Division 3 of Part 5.1 of the Occupational Health and Safety Regulations 2007 for Victoria.

The above WHS and OHS regulations do not permit workers to carry out construction work without completing general construction induction training.

**Concreting**

Completion of the general construction induction training requirements of the Model Work Health and Safety Regulations 2011 and relevant occupational health and safety regulations for Victoria and for Western Australia is required before entering a construction work site. Achievement of *CPCCWHS1001 Prepare to work safely in the construction industry* covers these induction training requirements.

Licensing, legislative, regulatory or certification requirements apply to concreting in some states and territories. Relevant state and territory regulatory authorities should be consulted to confirm these requirements. Concreting is currently licensed as a trade in Queensland, NSW and South Australia and through a Limited Builder Licence in Victoria and Western Australia.

# Implementation information

## Information on key features of the training package and the industry that will impact on the selection of training pathways

To meet the demands of industry and the requirements of VET stakeholders, training packages and the qualifications, units of competency and assessment requirements they contain are subject to change, including continuous improvement processes.

Training packages are released, and users are advised to check [training.gov.au](http://www.training.gov.au) for the latest release of the CPC Construction, Plumbing and Services Training Package. Further releases of this training package will be released as more qualifications, skill sets and units of competency are transitioned into the CPC Construction, Plumbing and Services Training Package from the CPC08 CPC Construction, Plumbing and Services Training Package.

**Maintaining currency in the CPC Construction, Plumbing and Services Training Package**

For trainers to deliver training and assess against units of competency from the CPC Construction, Plumbing and Services Training Package, they will need to maintain currency in terms of their knowledge, skills, regulatory and industry experience.

It is strongly recommended that, to maintain their vocational currency, trainers and assessors should have undertaken work experience or professional development related to the industry sector for the respective qualification within two years prior to their involvement in delivery and/or assessment.

**Assessment conditions**

The assessment requirements for each unit of competency contains an assessment conditions section that lists a range of assessment requirements, typically under the following categories:

* equipment
* materials
* specifications
* relationships with team members and supervisor
* relationship with clients.

Where training and assessment are conducted in an actual work site, safety and workplace induction requirements for RTO staff and learners will apply. In these situations, RTOs must ensure that any requirements are met to access and operate on the work site. This may include the safe handling and operation of plant, equipment and materials.

## Industry sectors and occupational outcomes of qualifications

**Learner verification**

*CPCCWHS1001 Prepare to work safely in the construction industry* does not preclude online delivery, although, it should be noted that the industry recommendation for the minimum time in terms of training and assessment is six hours.

Where an online delivery approach is used by RTOs, it is recommended that significant efforts are made to ensure the identity of the learner throughout the process. The industry advises that an appropriate level of identity verification is referenced in the National Identity Proofing Guidelines, specifically the ‘gold standard’ level of assurance 4.

For further details:

ag.gov.au/RightsAndProtections/IdentitySecurity/Documents/NationalIdentityProofingGuidelines.pdf.

**Resource and equipment**

For information on resources and equipment, training package users are also advised to check the Range of Conditions section in units of competency, which specify essential operating conditions that affect the performance of a unit. RTOs will need to have resources and equipment to address the Range of Conditions items as part of the training and assessment.

The assessment requirements for *CPCCWHS1001 Prepare to work safely in the construction industry* specify that the following items of personal protective equipment (PPE) must be present and available to learners during assessment activities:

* eye protection
* hearing protection
* foot protection
* hard hat
* high-visibility retro-reflective vest.

In some industries there may be additional PPE requirements, such as hand protection, respiratory protection, body protection clothing and high-safety PPE.

**Additional assessor requirements**

*CPCCWHS1001 Prepare to work safely in the construction industry (‘White Card’)*

For *CPCCWHS1001 Prepare to work safely in the construction industry,* it is a requirement that assessors hold the unit *CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry*, or its successor.

## High risk work licences

High risk work licences are required for activities associated with high‑risk work including:

* dogging
* rigging
* scaffolding
* crane operations
* personnel and materials hoists.

Safe Work Australia describes the class of high risk against the different high risk work licences.

## Industry sectors and competency fields

|  |
| --- |
| **Industry unit sectors and competency fields**  |
| **Unit Sector**  | **Competency field** | **Code identifier** |
| **Common** |
| Common | Management | CPCMCM |
| **Construction** |
| Construction | Building surveying | CPCCBS |
| Construction | Common | CPCCCM |
| Construction | Concreting | CPCCCO |
| Construction | Joinery | CPCCJN |
| Construction | High Risk Licence (Concrete Boom) | CPCCLBM |
| Construction | Plasterboard | CPCCPB |
| Construction | Signs and graphics | CPCCSG |
| Construction | Shopfitting | CPCCSH |
| Construction | Wall and ceiling | CPCCWC |
| Construction | Work health and safety | CPCCWHS |
| **Plumbing and Services** |
| Plumbing and services | Fire system design | CPCSFS |

## Occupational outcomes

|  |
| --- |
| **Occupational outcomes of qualifications** |
| **Qualification** | **Occupational outcome** | **Comments** |
| CPC30116 Certificate III in Shopfitting | ShopfitterThe CPC30116 Certificate III in Shopfitting provides shopfitters with the competencies required to construct or renovate high quality retail environments, including preparing walls and floors and fabricating, installing and finishing shopfronts, internal shopfitting units, and partitions. | Licensing, legislative, regulatory or certification requirements apply to shopfitting in some states. Relevant state and territory regulatory authorities should be consulted to confirm those requirements. |
| CPC30216 Certificate III in Signs and Graphics | Sign manufacturerThe CPC30216 Certificate III in Signs and Graphics provides sign manufacturers with the competencies required to design and produce signs for a range of purposes using traditional and contemporary sign‑making techniques. Projects undertaken can require the use of printing software and technology, and a range of methods for illuminating and fabricating signs. | No licensing, legislative, regulatory, or certification requirements apply to this qualification at the time of endorsement.A licence is only required for work undertaken with LED when lighting is above 240 volts, in which case relevant state and territory regulatory authorities must be consulted to confirm licensing requirements. |
| CPC30318 Certificate III in Concreting | Concreter, Concrete Pump Operator, Concrete Tilt Panel FabricatorThe Certificate III on Concreting provides concreters with the competencies to work in concreting operations on residential and commercial projects. It also covers common skills for the construction industry as well as a specialist field of work. | Licensing, legislative, regulatory or certification requirements apply to concreting in some states. Relevant state and territory regulatory authorities should be consulted to confirm those requirements. |
| CPC60115 Advanced Diploma of Building Surveying | Building surveyorBuilding certifierAlso commonly represented by job titles such as ‘Assistant Building Surveyor’, ‘Local Authority Building Manager’. | Licensing, legislative, regulatory or certification requirements apply to building surveying in some states. Relevant state and territory regulatory authorities should be consulted to confirm those requirements. |
| CPC80115 Graduate Certificate in Fire Systems Design Management | The CPC80115 Graduate Certificate in Fire Systems Design Management provides senior managers in the fire systems design sector with the competencies required to perform wide-ranging tasks while also exercising in-depth technical skills and knowledge, particularly in the area of special hazard fire suppression and detection systems. | No licensing, legislative, regulatory, accreditation or certification requirements apply to this qualification at the time of endorsement. |
| CPC80215 Graduate Diploma of Building Surveying | Senior building surveyorBuilding certifierStructural Engineer/ Building Surveyor Coordinator Building Compliance and Certification | Licensing, legislative, regulatory or certification requirements apply to building surveying in some states. Relevant state and territory regulatory authorities should be consulted to confirm those requirements. |

## Mandatory entry requirements

Entry requirements are the knowledge, skills or experience required to enter a qualification. They may be expressed as units of competency, qualifications or vocational outcomes and **must** be demonstrated prior to commencing the qualification.

Where entry requirements exist for a qualification, they are specified in the qualification.

## Pathways advice

The AQF provides a comprehensive, nationally consistent framework for VET qualifications in Australia. The framework helps to provide consistency in the VET sector for all trainees, learners, employers and providers by enabling recognition of qualifications and Statements of Attainment.

The framework enables flexible pathways that are horizontal (across qualifications at the same AQF level) and vertical (between qualifications at different AQF levels), and eliminates unnecessary and unfair barriers to AQF qualifications.

**Building surveying**

The CPC60115 Advanced Diploma of Building Surveying and the building surveying skill set – CPCSS00004 Provide building surveying services for residential buildings up to three storeys – provide a pathway to new entrants seeking a career as building surveyors. Along with the CPC80215 Graduate Diploma of Building Surveying, the building surveying qualifications and skill set also provide a pathway for experienced construction workers looking for a career change and wanting to expand their knowledge of building surveying.

The CPC80215 Graduate Diploma of Building Surveying also provides the opportunity for senior, experienced building surveyors to have their skills and knowledge recognised with a formal qualification.

**Fire system design**

CPC80115 Graduate Certificate in Fire Systems Design Management provides a defined pathway for new entrants seeking a career in fire systems design.

The qualification is also suitable for existing workers within allied areas such as tradespeople and computer-aided design (CAD) operators, who want to further build and deepen their skills and move into fire systems design.

The qualification is also suitable for experienced practitioners in the fire systems design management sector seeking recognition of their existing skills and knowledge, and for those who have undertaken the CPC50509 Diploma of Fire Systems Design in the CPC08 Construction, Plumbing and Services Training Package.

No apprenticeship pathways are declared for this qualification.

**Shopfitting**

CPC30116 Certificate III in Shopfitting is suitable for an apprenticeship pathway.

**Signs and graphics**

CPC30216 Certificate III in Signs and Graphics is suitable for an apprenticeship pathway.

**Concreting**

CPC30318 Certificate III in Concreting is suitable for an apprenticeship pathway.

## Access and equity considerations

An individual’s access to the assessment process must be bias-free and should not be adversely affected by restrictions placed on the location or context of assessment beyond the requirements specified in the CPC Construction, Plumbing and Services Training Package.

Training packages must reflect and cater for the increasing diversity of Australia’s VET clients and Australia’s current and future workforce. The flexibility offered by training packages should enhance opportunities and potential outcomes for all people so that we can all benefit from a wider national skills base and a shared contribution to Australia’s economic development, and social and cultural life.

**Reasonable adjustment**

It is important that education providers take meaningful, transparent and reasonable steps to consult on, consider and implement reasonable adjustments for disadvantaged learners.

Under the *Disability Standards for Education 2005*, education providers must make reasonable adjustments for people with a disability to the maximum extent that those adjustments do not cause that provider unjustifiable hardship. While ‘reasonable adjustment’ and ‘unjustifiable hardship’ are different concepts and involve different considerations, they both seek to strike a balance between the interests of education providers and the interests of people with and without a disability.

An adjustment is any measure or action that a learner requires because of their disability and which has the effect of assisting the learner to access and participate in education and training on the same basis as those without a disability. An adjustment is reasonable if it achieves this purpose while considering factors such as the nature of the learner’s disability, the views of the learner, the potential effect of the adjustment on the learner and others who might be affected, and the costs and benefits of making the adjustment.

An education provider is also entitled to maintain the academic integrity of a course or program and to consider the requirements or components that are inherent or essential to its nature when assessing whether an adjustment is reasonable.

The *Disability Standards for Education 2005* and the *Disability Standards for Education Guidance Notes* may be downloaded at <http://education.gov.au/disability-standards-education>.

## Foundation skills

Foundation skills are the non-technical skills that support an individual’s participation in the workplace, in the community and in education and training.

In this training package (and all training packages developed by Artibus Innovation) the foundation skills incorporate the language, literacy and numeracy (LLN) skills described in the Australian Core Skills Framework (ACSF).

The skills included in this framework are

* Learning
* Reading
* Writing
* Oral Communication
* Numeracy

Where foundations skills essential to performance in a unit **are explicit**, the following statement will be included under the foundation skills field:

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

Where foundation skills essential to performance in a unit are **not explicit**, then they will be listed in the foundation skills field in that unit.

## Advice on any health and safety implications in the industry

Where required, WHS elements have been addressed in the qualification and units of competency of the CPC Construction, Plumbing and Service Training Package.

## Resource and equipment relevant to this training package

The assessment conditions section of the assessment requirements for each unit of competency specifies resources or equipment required for assessment.

## Legal consideration for the learners in the workplace including placements

Legal requirements for learners in the workplace or involved in work experience that apply to industry-specific sectors covered in the CPC Construction, Plumbing and Services Training Package vary across each state and territory and can change from time to time.

Users should contact the relevant state or territory training authorities provided at the end of this Guide to check if legal requirements apply.

Work placements should always involve appropriate supervision and guidance from individuals in the workplace as well as from RTO trainers and assessors, and must adhere to required legislation that applies in the jurisdiction. For example, RTOs and employers must ensure that learners meet appropriate WHS requirements while on a construction site.

Apprenticeships and traineeships are formal training arrangements between an employer and an employee that have been established by a state or territory training authority. Where a qualification is used for an apprenticeship or traineeship, the training must be recognised by the state or territory training authority. This includes the form and registration of indenture.

# Links

| **General Links** |
| --- |
| **Organisation/Publication** | **Detail** | **Contact** |
| Australian Apprenticeships  | Offers information about traineeships and apprenticeships and includes links to state and territory authorities that monitor provision. | [www.australianapprenticeships.gov.au](http://www.australianapprenticeships.gov.au)  |
| Australian Industry and Skills Committee (AISC) | ‘Advises Commonwealth and State Industry and Skills Ministers on the implementation of national vocational education and training policies, and approves nationally recognised training packages for implementation in the VET system.’ | [www.aisc.net.au](http://www.aisc.net.au)  |
| Australian Skills Quality Authority (ASQA) | ‘Promotes quality training so that students, employers, and industry have confidence in Australia's training sector.’ | [www.asqa.gov.au](http://www.asqa.gov.au/) |
| Australian Qualifications Framework | Second Edition, January 2013 | [www.aqf.edu.au](http://www.aqf.edu.au/) |
| Department of Education and Training – Skills and Training |  | [https://education.gov.au](http://www.industry.gov.au/Pages/default.aspx) |
| LiteracyNet | Key information about Australian adult literacy activities and links to a range of programs, professional development, resource and research sites. | <https://www.education.gov.au/literacy-net>  |
| National Foundation Skills Strategy for Adults | ‘A ten-year framework which brings a national focus to improving education and employment outcomes for working age Australians with low levels of foundation skills (language, literacy, numeracy and employability skills).’ | <https://www.education.gov.au/national-foundation-skills-strategy-adults>  |
| National Centre for Vocational Education Research (NCVER) | VET information portal | [https://www.ncver.edu.au](https://www.ncver.edu.au/) |
| SAI Global | Produces and publishes Australian Standards applicable to a range of industries, including building and construction. The Australian Standards referenced in the NCC are available for purchase from SAI Global. | [https://www.saiglobal.com](https://www.saiglobal.com/) |
| Safe Work Australia (SWA) | Develops national policy relating to work health and safety and workers’ compensation; and prepares and revises model Acts, regulations and codes of practice. | [http://www.safeworkaustrali](http://www.safeworkaustralia.gov.au/sites/SWA) [a.gov.au/sites/SWA](http://www.safeworkaustralia.gov.au/sites/SWA) |
| TGA  | Training Packages and their components | [www.training.gov.au](http://www.training.gov.au/) |

**State Training Authorities**

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| **Jurisdiction**  | **Contact** |
| Australian Capital Territory | <http://www.det.act.gov.au/home> |
| New South Wales | [http://www.training.nsw.gov.au](http://www.training.nsw.gov.au/) |
| Northern Territory | [http://www.education.nt.gov.au](http://www.education.nt.gov.au/) |
| Queensland | [http://training.qld.gov.au](http://training.qld.gov.au/) |
| South Australia | <http://www.statedevelopment.sa.gov.au/skills> |
| Tasmania | [http://www.education.tas.gov.au](http://www.education.tas.gov.au/) |
| Victoria | <http://www.education.vic.gov.au/Pages/default.aspx> |
| Western Australia | ??? |