

Project Scope

On behalf of the Construction, Plumbing and Services Industry Reference Committee (IRC), Artibus Innovation is reviewing and updating the following qualification and 18 'CCO' coded units of competency from the CPC Construction, Plumbing and Services Training Package:

- CPC30318 Certificate III in Concreting

CPCCCM1016 Identify requirements for safe tilt-up work added to the scope at IRC request.

Project Summary

This project is reviewing and updating the CPC30318 Certificate III in Concreting and the following units of competency:

- CPCCCM1016 Identify requirements for safe tilt-up work
- 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.

This review will:

- ensure that the qualification packaging arrangements remain fit for purpose and reflect the current occupational role and any licensing requirements
- review and update concreting units of competency to ensure they continue to meet industry needs and incorporate changes to work processes, technologies and the National Construction Code.

Key Points

- The materials within this scope of work were redeveloped and endorsed in early 2019.
- A TAG was not established to oversee the project – it was assumed that updates to the qualification and units would be minor.
- Project focus is on consultation and engagement to ensure the updated materials are fit for purpose and widely accepted by all stakeholders including State/Territory Training Authorities (STAs) and Master Concreters Australia (MCA).
- First round of national consultation feedback:
 - employers are finding it difficult to attract people to concreting
 - concreting is a highly skilled job and there are quality issues across the board as it's not licensed and the qualification not mandatory in most jurisdictions
 - the qualification should be delivered as an apprenticeship (rather than traineeship) and declared as a trade given the volume of learning and skill/knowledge required
 - the need to change the qualification packaging and units to:
 - better reflect the actual occupation/job role
 - ensure the qualification is robust in its Australian Qualifications Framework (AQF) 3 alignment and can support industry demand for an apprenticeship/declared trade
 - update units to incorporate changes in industry and strengthen technical knowledge, eg in areas such as risks associated with silica, and impact of weather and climate on concrete.
- A working group of technical experts has been established and engaged to advise on changes required to address issues and best meet occupational for residential and commercial concreters.
- *CPCCCM1016 Identify requirements for safe tilt-up work* has been added to the scope to address issues around its currency and coverage of all prefabricated concrete elements (as defined in Safe Work Australia's *National Code of Practice for Precast, Tilt-up and Concrete Elements in Building Construction*).

Project Progress

Stakeholder engagement

A range of communication strategies has been employed in the first round of consultation to engage all categories of stakeholders nationally:

- face-to-face meetings in every state/territory except Tasmania where consultation was by phone
- direct engagement using phone calls and email communication in every state/territory
- Artibus newsletter and website communication.

Stakeholder groups	Consultation overview
Employers	Face-to-face consultation with 43 representatives Phone consultation with an additional 15 employers Email communication to 78 representatives currently listed in the project register
Peak bodies/ Associations	Face-to-face consultation with representatives from Construction Industry Training Board SA, Construction Training Fund WA and Concrete Pumping Association Phone and email consultation with representatives from Master Concreters, Concrete Institute of Australia, Cement Australia, Concrete Sawing & Drilling Association Australia, HIA, MBA and Steel Reinforcement Institute of Australia
STAs/ITABs	Face-to-face and email consultation with NT and WA Phone and email consultation with VIC and NSW

Stakeholder groups	Consultation overview
Regulators	Face-to-face consultation with Consumer and Business Services SA Phone and email consultation with WorkSafe VIC, Victorian Registration and Qualifications Authority, Training Accreditation Council WA and Queensland Building and Construction Commission
Unions	Face-to-face consultation with CFMEU QLD Phone and email consultation with CFMEU VIC and Unions ACT
RTOs	Face-to-face consultations with 8 RTO representatives Phone and email consultation with 95 RTOs currently listed in the project database

Concreting working group

A working group has been established to provide technical advice on the qualification packaging arrangements and detail in units of competency (membership shown below). Note: Northern Territory participation was declined given there is little delivery of the qualification in the NT – stakeholders will be kept informed using project consultation strategies and through ISACNT.

Name	Stakeholder category	State/Territory
Lee Ryan	Employer and trainer/assessor	QLD
Chris Jones	Employer and MCA	QLD & MCA
David Lingard	Master Concreters Australia	National
Billy Shelton	Employer	QLD
Conan Butler	Employer	NSW/QLD
Mark Woodyard	Employer	WA
Tony Pisano	Employer	WA
Robert Belmonte	Employer	ACT
Jeff Piotto	Employer	SA
Joseph Bagnara	Employer	SA
Tony Sergi	Employer	NSW
Graeme Teece	Employer and trainer/assessor	NSW
Ben Waller	Employer	TAS
Brook Noble	Concrete Institute of Australia & Cement Australia	TAS
Peter Russell	Trainer/assessor and concreting specialist	VIC
Jaque Conley	MBA	VIC
Max Rafferty	MBA	National
Marie Paterson	Construction, Plumbing & Services IRC	National

Two online meetings of the working group have been held: 25 September and 8 October 2019. The working group considered feedback and issues from national consultation and agreed to:

- change the core/elective structure of the qualification increasing the number of core units from 15 to 17 and the total number of units from 20 to 22
- introduce new core units that strengthen the AQF 3 alignment and are considered essential to commercial and residential concreters: determine concrete supply requirements, carry out setting out and carry out levelling operations
- move the slump testing unit out of the core as the function is not performed by concreters
- embed critical knowledge into the place concrete unit on the purpose and importance of slump testing and risks associated with adding water on site

- redevelop the decorative finish unit to reflect latest industry practice, environmental issues and growth in demand for finishes such as exposed aggregate
- remove 'coring' from the cut concrete unit as coring is a specialist function
- rework CPCCCO3052 to remove high risk and boom operations and better reflect the role of the line/hose hand
- include the white card unit as an entry or core requirement pending Departmental advice (IRC decision).

A further meeting is proposed when feedback from the second round of consultation is available.

Draft pack 2

A second draft of the qualification and units has been prepared to account for feedback and issues raised during consultation as well as working group advice.

Issues

There are no major issues to report, noting:

- Anne Duggan and Barry Kearney (CFMEU Victoria Training Unit) have advised they do not support *CPCCON3035 Determine concrete supply requirements* as a core unit as they believe it is not a function performed by supervisors and isn't accessible to workers, especially in commercial concreting. Working group members are clear that this is a key skill requirement for workers in both residential and commercial concreting.
- David Lingard (MCA) was initially unsupportive of this project since the qualification was only endorsed in January, has been in a constant state of review, and a further review would hamper MCA's current state/territory negotiations to have the qualification delivered as an apprenticeship. MCA is now supportive and working with Artibus to ensure the outcomes reflect the current job role and industry needs.
- Project timelines are slightly behind given the issues raised and the need to establish a working group.

Project Timeline

Stage 1	Project commencement	22 July 2019
	Initial stakeholder consultation and Draft Pack 1	23 July – 9 August 2019
Stage 2	Round 1 of industry consultation and training package development	10 August – 20 September 2019
	Round 2 of industry consultation and training package development	21 September – 18 October 2019
Stage 3	Validation consultation	19 October – 8 November 2019
Stage 4	Quality assurance phase	December 2019 – March 2020
Stage 5	STA endorsement	March – April 2020
	Case for Endorsement submitted to Department of Education and Training	May 2020

Draft Qualification Mapping

CPC Construction, Plumbing and Services Training Package Release 6.0	CPC Construction, Plumbing and Services Training Package Release 4.0	Comments	Anticipated Equivalent statement
CPC30320 Certificate III in Concreting	CPC30318 Certificate III in Concreting	Supersedes and is non-equivalent to CPC30318 Certificate III in Concreting New entry requirements and changed packaging arrangements	N

Draft Units of Competency Mapping

CPC Construction, Plumbing and Services Training Package Release 6.0	CPC Construction, Plumbing and Services Training Package Release 4.0	Comments	Anticipated Equivalent statement
CPCCOM1016 Identify requirements for safe precast and tilt-up work	CPCCCM1016 Identify requirements for safe tilt-up work	Supersedes and is non-equivalent to CPCCOM1016 Identify requirements for safe tilt-up work Updated to include all prefabricated concrete elements	N
CPCCON2021 Handle concreting materials and components	CPCCCO2021 Handle concreting materials	Supersedes and is equivalent to CPCCCO2021 Handle concreting materials	E
CPCCON2022 Select, use and maintain concreting plant, tools and equipment	CPCCCO2022 Select, check and maintain concreting plant, tools and equipment	Supersedes and is equivalent to CPCCCO2022 Select, check and maintain concreting plant, tools and equipment	E
CPCCON3035 Determine concrete supply requirements	CPCCCO3035 Assess and specify concrete supply requirements	Supersedes and is equivalent to CPCCCO3035 Assess and specify concrete supply requirements	E
CPCCON3036 Plan concrete work and brief team	CPCCCO3036 Plan concrete work and brief team	CPCCCO3036 Plan concrete work and brief team	E
CPCCON3041 Place concrete	CPCCCO3041 Place concrete	Supersedes and is equivalent to CPCCCO3041 Place concrete	E
CPCCON3042 Finish concrete	CPCCCO3042 Finish concrete	Supersedes and is equivalent to CPCCCO3042 Finish concrete	E
CPCCON3043 Cure concrete	CPCCCO3043 Cure concrete	Supersedes and is equivalent to CPCCCO3043 Cure concrete	E

CPC Construction, Plumbing and Services Training Package Release 6.0	CPC Construction, Plumbing and Services Training Package Release 4.0	Comments	Anticipated Equivalent statement
CPCCON3044 Apply decorative finishes to concrete	CPCCCO3044 Apply decorative finishes to concrete	Supersedes and is non-equivalent to CPCCCO3044 Apply decorative finishes to concrete Updated to change types of required finishes	N
CPCCON3046 Repair and rectify concrete	CPCCCO3046 Repair and rectify concrete	Supersedes and is equivalent to CPCCCO3046 Repair and rectify concrete	E
CPCCON3047 Cut concrete	CPCCCO3047 Cut and core concrete	Supersedes and is non-equivalent to CPCCCO3047 Cut and core concrete Updated to remove coring	N
CPCCON3048 Construct tilt panels on site	CPCCCO3048 Construct tilt panels on site	Supersedes and is equivalent to CPCCCO3048 Construct tilt panels on site	E
CPCCON3049 Apply and finish sprayed concrete	CPCCCO3049 Apply and finish sprayed concrete	Supersedes and is equivalent to CPCCCO3049 Apply and finish sprayed concrete	E
CPCCON3050 Carry out high performance concreting	CPCCCO3050 Carry out high performance concreting	Supersedes and is equivalent to CPCCCO3050 Carry out high performance concreting	E
CPCCON3051 Conduct off-form vertical concrete operations	CPCCCO3051 Conduct off-form vertical concrete operations	Supersedes and is equivalent to CPCCCO3051 Conduct off-form vertical concrete operations	E
CPCCON3052 Conduct concrete pump delivery operations	CPCCCO3052 Conduct concrete boom delivery operations	Supersedes and is non-equivalent to CPCCCO3052 Conduct concrete boom delivery operations Updated to remove boom and high-risk work	N
CPCCON3053 Slump-test concrete	CPCCCO3053 Slump-test concrete	Supersedes and is equivalent to CPCCCO3053 Slump-test concrete	E
CPCCON3054 Operate concrete agitator trucks	CPCCCO3054 Operate concrete agitator trucks	Supersedes and is equivalent to CPCCCO3054 Operate concrete agitator trucks	E
CPCCON3055 Install topping slabs	CPCCCO3055 Install topping slabs	Supersedes and is equivalent to CPCCCO3055 Install topping slabs	E

Project Plan Overview as at 15 October 2019

Training Package Components	Amount
Qualifications to be reviewed	1
Qualifications to be deleted	-
Units of competency	19
Skill sets to be created	-
Qualifications to be created	-