**Case for Change**

Building Design

**Qualifications**

CPP40115 Certificate IV in Building Design Drafting

CPP50911 Diploma of Building Design

CPP80113 Graduate Certificate in Building Design

CPP80213 Graduate Diploma of Building Design

**Training Package: CPP Property Services Training Package**

Submitted by Artibus Innovation

on behalf of the

Property Services IRC

March 2018

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# Administrative information

**Industry Reference Committee (IRC)**

Property Services IRC

**Skills Service Organisation**

Artibus Innovation

**Training package components**

**Training package****:** CPP07 Property Services Training Package

**Qualifications**

* CPP40115 Certificate IV in Building Design Drafting
* CPP50911 Diploma of Building Design
* CPP80113 Graduate Certificate in Building Design
* CPP80213 Graduate Diploma of Building Design

**Units of competency**

* 37 units of competency

**How the case was developed**

The Commonwealth Department of Education and Training commissioned the Property Services IRC to develop a case for change in relation to the above components.

This case was informed by extensive research, review of existing feedback, consultation with key stakeholders including employers, industry associations and registered training organisations and further consideration of policy directives.

Within the context of the activity order (Artibus BC 2016-17/004) the qualifications have been reviewed:

* for fitness for purpose and structural effectiveness to optimise vocational outcomes and articulation arrangements
* to consider pathways and the interconnections of Building Design with qualifications in the related industry sectors of Access Consulting and Home Sustainability and Adaptability
* to support better alignment between qualifications and licensing requirements
* to consider and address the COAG Industry and Skills Council November 2015 reforms for training packages
* to clarify the transition issues when the units of competency are redeveloped to the *Standards for Training Packages 2012*.

# The case for change

**Drivers for change**

The challenges and issues considered are informed by research and consultation with the IRC, Building Design practitioners, employers, the peak industry associations and RTOs. The responses and changes proposed are consistent with the COAG Industry and Skills Council reforms and policy directives. The work proposed will optimise the Building Design components in the CPP Property Services Training Package.

| **Qualification**  | **Key Issues Considered** | **Proposed Action** |
| --- | --- | --- |
| CPP40115 Certificate IV in Building Design Drafting | The title of the qualification does not reflect its vocational outcome, a highly skilled draftsperson with skills in construction detailing. The learner’s and employer’s perceptions of the vocational outcomes for the Certificate IV in Building Design Drafting differ. Learners are aiming to be building designers and employers expect graduates to be drafting technicians, not designers. This Certificate IV was introduced in 2015 to address issues of attrition in the CPP50911 Diploma of Building Design. Western Australia developed its own accredited course in 2015, the 52757WA Certificate IV in Residential Building Drafting, which is a simplified version of the national qualification. Under the Architects Act in each state there are varying restrictions on the use of the word ‘architect’ and ‘architectural’. To avoid any confusion, this terminology is not used in the building design components of the CPP Property Services Training Package.  | Review and update the qualification to ensure that the:* title reflects the vocational outcome of building construction draftsperson
* revise the packaging rules to support vocational outcomes
* strengthen pathways in Building Design and related specialisms, such as Building Information Modelling (BIM)

Review the unit detail and assessment requirements to:* validate currency and remove duplication
* consider development of new units
* consider the inclusion of imported units.
 |
| CPP50911 Diploma of Building Design  | Many students enter directly into the Diploma. NCVER data shows that in 2015 and 2016 there were 3,481 and 3,740 enrolments, and 502 and 380 completions respectively. A contributing factor to the high attrition rate is lack of underpinning knowledge, which learners would achieve with prior attainment of the Certificate IV. Industry professionals and employers have indicated that they would prefer that junior drafting staff complete the Certificate IV prior to undertaking the Diploma.  | Transition to the *Standards for Training Packages 2012* and review and update the qualification to:* enhance flexibility and adaptability to better meet the needs of learners
* recommend that the attainment of the Certificate IV be made an entry requirement for the Diploma
* adjust the structure to better meet future workforce needs and to support three vocational streams:
	+ building designer
	+ senior drafting technician managing staff
	+ Building Information Modelling (BIM) technician
* strengthen pathways to related sectors including Access Consulting and Home Sustainability and Adaptability.

Transition and review the unit detail and assessment requirements to:* validate currency and remove duplication
* consider development of new units
* consider the inclusion of imported units.
 |
| CPP6XXX18 | Industry associations have recommended that a new Advanced Diploma of Building Design be introduced to better align with existing regulatory frameworks. | * develop an Advanced Diploma of Building Design for practitioners who manage a building design practice and undertake medium rise projects.
 |

|  |  |  |
| --- | --- | --- |
| CPP80113 Graduate Certificate in Building Design  | These AQF level 8 qualifications are intended to apply to senior building designers responsible for managing a building design practice and undertaking the full range of residential, commercial, public or industrial projects including new buildings and renovations. However, only two registered training organisations have these qualifications on scope. NCVER data indicated that in 2015 and 2016 enrolments in the Graduate Certificate were one and zero. Enrolments in the Graduate Diploma were zero in both years, although anecdotal advice has been received that another RTO has continuing enrolments in the Graduate Diploma. As the Graduate Certificate, comprising five units, is nested with the Graduate Diploma. the AQF level 8 qualifications can be streamlined by deleting the Graduate Certificate and retaining the Graduate Diploma. | * delete the Graduate Certificate.
 |
| CPP809213 Graduate Diploma of Building Design | Transition to the *Standards for Training Packages 2012* and review and update the the Graduate Diploma.Transition and review the detail and assessment requirements of units to:* update units in the Graduate Diploma
* validate currency and remove duplication
* consider development of new units
* consider the inclusion of imported units.
 |
| Licensing andContinuing professional development  | Most states and territories have licensing requirements for architects but not for building designers. Those states with licensing for building designers having varying requirements:* Victoria has its own accredited course, the 22268VIC Advanced Diploma of Building Design (Architectural), which is directly linked to the licensing requirement in that State.
* In Queensland a skill set of seven units from the Diploma is required for a low-rise license and the full Diploma is required to the medium rise license. The Graduate Certificate (equivalent to a sub set of five units from the Graduate Diploma) is recognised by the Queensland Building and Construction Commission as an acceptable educational requirement for the Building Design Open licence, which has no restriction on the height or type of building.
* Tasmania has a three-tier licencing system. NSW, South Australia and Western Australia are considering implementing the same three-tiered system.

Recognition of building design as a profession is being sought by all jurisdictions. The Case for Change provides an opportunity to better align qualifications and/or skill sets with licensing requirements to support national consistency.  | Consult with industry and building regulatory bodies to: * support national consistency and better alignment between qualifications and/or skill sets and licensing requirements
* benchmark the proposed new Advanced Diploma in Building Design with the Victorian accredited course.
* In the revision of the Graduate Diploma, consider the development of professional development skill sets to reflect licencing requirements, evolving construction methods and techniques and contemporary design criteria.
 |

**Summary of Proposed Changes**

| **Level of change** | **Action** |
| --- | --- |
| **Qualification**  | **Certificate IV in Building Design** Review and update the qualification to:* change the title to building construction draftsperson

sSupport pathways in Building Design related specialisations, such as Building Information Modelling (BIM)Review the unit detail and assessment requirements to:* validate currency and remove duplication
* consider development of new units
* consider the inclusion of imported units.
 |
| **Diploma of Building Design** * stipulate the Certificate IV as an entry requirement for the Diploma
* adjust the structure to better meet future workforce needs and to support three vocational streams:
	+ building designer
	+ senior drafting technician managing staff
	+ BIM technician
* strengthen pathways to related sectors including Access Consulting and Home Sustainability and Adaptability.

Review the unit detail and assessment requirements to:* validate currency and remove duplication
* consider development of new units
* consider the inclusion of imported units.
 |
| **Advanced Diploma of Building Design*** develop an Advanced Diploma in Building Design for practitioners who manage a building design practice and undertake medium rise projects

Review unit detail and assessment requirements to:* consider development of new units
* consider the inclusion of redeveloped existing units
* consider the inclusion of imported units.
 |
| **Graduate Certificate in Building Design** * delete the Graduate Certificate
 |
| **Graduate Diploma of Building Design*** review and update the qualification, and
* develop professional development skill sets to reflect licencing requirements, evolving construction methods and techniques and contemporary design criteria.

Transition and review the detail and assessment requirements of units to:* validate currency and remove duplication
* consider development of new units
* consider the inclusion of imported units.
 |
| **Unit of competency** | There are 55 units in total:* 37 existing building design units of competency:
* 13 of which are to be reviewed and updated
* 17 for review, update and transition to the *Standards for Training Packages 2012*
* 7 for potential integration
* 18 new units to be developed for the Advanced Diploma.

Please refer to **Attachment A – Training Package components to change**  |
| **Imported units** | Review for suitability of inclusion:* 6 CPP units
* 16 imported units
 |
| **Skill sets** | Develop professional development skill sets to reflect licencing requirements, evolving construction methods and techniques and contemporary design criteria. |

# Industry support for change

**Methodology**

Previous consultation undertaken by the Construction and Property Services Industry Skills Council (CPSISC) noted the need to revitalise the Building Design components to ensure that they were responsive to contemporary industry needs and provided for continuing workforce development. The following approach was undertaken to further consult with stakeholders to substantiate the case for change:

* desktop research into the Building Design sector to validate key drivers
* quality audit of the qualifications and units of competency
* consideration of an issues paper submitted on behalf of the Building Designers Association, employers, and educational institutions in Western Australia.
* guidance and input from the Property Services IRC
* telephone conversations and email correspondence with key stakeholders
* guidance and validation from the Building Design Technical Advisory Group

Please refer to the **Attachment B: Stakeholder Consultation**

# Impact of change

**Positive impact of implementing the recommended changes**

Industry are recommending the changes outlined in the table above so that:

* qualifications are packaged to respond more flexibly to changing skill needs

and to enhance articulation and cross sector pathways

* qualifications and licensing requirements are better aligned
* qualifications support pathways in emerging occupations such as BIM technician
* the workforce will have skill development opportunities across the related industry sectors of Access Consulting and Home Sustainability
* the units of competency are streamlined and better reflect industry best practices.

**Negative impact of not implementing the recommended changes**

Not implementing the above changes will mean that the:

* quality and value of the Building Design components will be compromised
* skills and knowledge gaps will increase
* training and delivery will not meet the anticipated increase in demand for Building Design services due to market expansion and attrition.
* training and delivery will not reflect current and emerging industry standards.

# Implementing the COAG Industry and Skills Council reforms for training packages

The proposed changes aim to implement key principles of COAG Industry and Skills Council reforms to training packages.

**This case for change was agreed to by the Property Services IRC.**

Noel Hamey

**(Name of Chair)** **Signature of Chair**

# Attachment A – Training Package components to change

**SSO:** Artibus Innovation

**Contact details:** 373 Elizabeth St. (Soundys Building) | North Hobart | TAS | 7000

**Date submitted:** TBD

**IRC:** Property Services IRC

**Training Package:** CPP Property Services

**Qualifications**

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | **Title** | **Status** | **Known Change Required** |
| CPP40115  | Certificate IV in Building Design Drafting  | Open  | Update  |
| CPP50911  | Diploma of Building Design | Open  | Update  |
| CPP80113  | Graduate Certificate in Building Design | Open  | Delete qualification  |
| CPP80213 | Graduate Diploma of Building Design  | Open | Update |

**Units of competency**

| **Code** | **Title** | **Review Status** | **Proposed Action** |
| --- | --- | --- | --- |
| CPPBDN4001 | Research and evaluate construction materials and methods for building design projects | Open | Review and update  |
| CPPBDN4002 | Research and apply compliance requirements to technical construction documentation | Open | Review and update  |
| CPPBDN4003 | Collect, apply and store building design project information | Open | Review and update  |
| CPPBDN4004 | Set up BIM-capable software and files for building design drafting projects | Open | Review and update  |
| CPPBDN4005 | Review and report structural integrity of building designs | Open | Review and update  |
| CPPBDN4006 | Import and transpose information from external sources into digital building design drawings | Open | Review and update  |
| CPPBDN4007 | Store and retrieve building design documentation | Open | Review and update  |
| CPPBDN4008 | Produce digital building design concept drawings | Open | Review and update  |
| CPPBDN4009 | Analyse building design drawings and review findings | Open | Review and update  |
| CPPBDN4010 | Prepare documentation for planning approval | Open | Review and update  |
| CPPBDN4011 | Prepare documentation for building approval | Open | Review and update  |
| CPPBDN4012 | Provide support to project building designers | Open | Review and update  |
| CPPBDN4013 | Produce construction detail drawings | Open | Review and update  |
| CPPBDN5001A | Research construction materials and methods for small-scale residential building design projects | Open | Review, update and transition  |
| CPPBDN5002A | Research construction materials and methods for small-scale non-residential building design projects | Open | Review, update and transition  |
| CPPBDN5003A | Research compliance requirements for small-scale residential building design projects | Open | Review, update and transition  |
| CPPBDN5004A | Research compliance requirements for small-scale non-residential building design projects | Open | Review, update and transition  |
| CPPBDN5005A | Recommend sustainability solutions for small-scale building design projects | Open | Review, update and transition  |
| CPPBDN5006A | Consult with clients to produce approved small-scale building project design briefs | Open | Review, update and transition  |
| CPPBDN5007A | Inspect and analyse sites and produce measured drawings for small-scale building design projects | Open | Review, update and transition  |
| CPPBDN5008A | Develop concepts for small-scale building design projects and finalise solutions with clients | Open | Review, update and transition  |
| CPPBDN5009A | Produce compliant client-approved designs for small-scale building design projects | Open | Review, update and transition  |
| CPPBDN5010A | Negotiate and finalise planning approval for small-scale building design projects | Open | Review, update and transition  |
| CPPBDN5011A | Produce compliant client-approved working drawings for small-scale residential buildings | Open | Review, update and transition  |
| CPPBDN5012A | Produce and present 3-D models of small-scale building designs | Open | Review, update and transition  |
| CPPBDN5013A | Develop and collaborate on building information models for small-scale building design projects | Open | Review, update and transition  |
| CPPBDN5014A | Contribute to construction and building design project finalisation processes | Open | Review, update and transition  |
| CPPBDN5015A | Produce compliant client-approved working drawings for non-residential buildings | Open | Review, update and transition  |
| CPPBDN5016A | Produce and present rendered animations of 3-D models of small-scale building designs | Open | Review, update and transition  |
| CPPBDN5017A | Produce 2-D drawings for building design projects using CAD software | Open | Review, update and transition  |
| CPPBDN8001A | Research and evaluate construction materials and methods for complex building design projects | Open | Review and redevelop  |
| CPPBDN8002A | Research compliance requirements for complex building design projects | Open | Review and redevelop  |
| CPPBDN8003A | Scope and initiate large and complex building design projects | Open | Review and redevelop  |
| CPPBDN8004A | Lead the building design team | Open | Review and redevelop  |
| CPPBDN8005A | Manage the tendering and construction process for a client | Open | Review and redevelop  |
| CPPBDN8006A | Identify and manage new building design technologies | Open | Review and redevelop  |
| CPPBDN8007A | Manage the design of Type A constructions | Open | Review and redevelop  |

# Attachment B – Stakeholder consultation method and scale

|  |  |  |
| --- | --- | --- |
| **Stakeholder** | **Organisation** | **Method** |
| Wayne Ketchen | Gordon TAFE | Email  |
| Russell Stork | Advanced Building Studies Network, Victoria  | Email  |
| David Plowright  | Input to paper provided by Building Designer’s Association, employers and educational institutions in Western Australia  | Submission of issues paper  |
| Russell Brandon  | Building Designers Association of Queensland  | Email  |
| Cameron Murphy | Queensland Building and Construction Commission | Email  |
| Des Kearney  | TAFE Queensland, Skills Tech | Email |
| Leonie Bradbury and Gerard O’Connor | TAFE Queensland, East Coast | Email  |
| Todd Dunlop  | Digital Construction Academy  | Email |
| Robyn Addie  | TAFE NSW, Industry Liaison Unit – Construction and Property Services  | Email  |
| Greg Cheetham  | Open Training and Education Network (OTEN), TAFE NSW | Email  |
| Ian Bassett | Property Services Industry Reference Committee | Property Services IRC  |
| Andrew Goldsworthy | Director Technical Registration, Consumer, Building and Occupational Services, Department of Justice, Tasmania | Building Design TAG |
| Julie Ann Canal | The Design Mill, WA | Building Design TAG |
| Rob Booth | TasTAFE | Building Design TAG |
| Teresa Serrao | Managing Director, Built Form Design Academy | Building Design TAG |
| Theresa Hatton  | Building Designer  | Building Design TAG |
| Susan Hobbs  | Hobbs Homes | Building Design TAG |
| Jane Clancy | Swinburne University of Technology, VIC | Building Design TAG |

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| **State Training Authorities – draft case for change provided to:** |
| Australian Capital Territory – Skills Canberra | Email |
| New South Wales – NSW Department of Industry  | Email |
| Northern Territory – Department of Trade, Business and Innovation | Email  |
| Queensland – Department of Education, Training  | Email |
| South Australia – Department of State Development  | Email |
| Tasmania – Skills Tasmania, Department of State Growth | Email |
| Victoria – Department of Education and Training  | Email |
| Western Australia – Department of Training and Workforce Development  | Email |