

# artibus

# INNOVATION

Developing industry skills

## Building Surveying Research Paper



Construction, Plumbing and Service  
Training Package

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# Contents

Building Surveying Industry Overview	1
Industry Description	1
Occupations	1
Regulation and Licensing	1
Building Surveying Industry Trends	2
Educational Trends	2
Political Trends	2
Building Surveying Training Information	5
Relevant VET Qualifications	5
Enrolment Numbers	5
Completion Numbers	6
References	7
Appendix A – Licence and Regulation Information	8
Appendix B – Enrolment Numbers	15
Appendix C – Completion Numbers	16
Appendix D – Unit of Competency Enrolments	17

# Building Surveying Industry Overview



## Industry Description

A building surveyor is engaged by the owner of a property to ensure building work is carried out in accordance with national and state laws. They assess building plans to ensure compliance with the National Construction Code of Australia (NCC) – including the Australian Standards referenced within it – and any other relevant building legislation and state/ territory requirements.<sup>1</sup> A building surveyor conducts inspections and signs off on each stage of the construction of a building to ensure buildings are safe to occupy, energy efficient, accessible and meet all legal requirements. At the end of the building work it is the responsibility of the building surveyor to issue the occupancy permit or certificate of final inspection. Building surveyors are either private or employed by local government.<sup>2</sup>



## Occupations

Building surveyors are classified in the Australian and New Zealand Standard

Classification of Occupations (ANZSCO) within the Architectural, Building and Surveying Technicians sector as occupation 312113 Building Inspector.<sup>3</sup> Australian Bureau of Statistics (ABS) employment projections show that this sector is forecast to increase in employment by 1.6% in the next five years.<sup>4</sup>



## Regulation and Licensing

Qualifications for building surveying in Australia are dual sector in nature. In most states and territories, there are two main classes of building surveyor. To perform work as an unrestricted building surveyor (i.e., all building classes), attainment of a university degree (equal to or higher than AQF Level 7) is required. To work as a restricted or limited building surveyor up to three storeys a VET qualification (AQF6) or Skill Set derived from the Advanced Diploma is the minimum requirement.

For a detailed breakdown of the licensing in all Australian jurisdictions see Appendix A.

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<sup>1</sup> Australian Institute of Building Surveyors, *Building Surveying in Australia*, accessed online 31/01/2019 at: [https://aibs.com.au/Public/Building\\_Surveying\\_In\\_Australia/Public/Building\\_surveying\\_in\\_Australia.aspx?hkey=156e97c2-9377-4e93-8155-095cca559b28](https://aibs.com.au/Public/Building_Surveying_In_Australia/Public/Building_surveying_in_Australia.aspx?hkey=156e97c2-9377-4e93-8155-095cca559b28)

<sup>2</sup> Ibid.

<sup>3</sup> ABS, 2009, “ANZSCO First edition, cat number 122.0”, accessed online 02/05/2019 at:

<http://www.abs.gov.au/ausstats/abs@.nsf/Product+Lookup/1220.0~First+Edition,+Revision+1~Chapter~UNIT+GROUP+3121+Architectural,%20Building%20and%20Surveying%20Technicians>

<sup>4</sup> Labour Market Information Portal, 2019, “Data file: Occupation Projections – five years to May 2023”, accessed online 22/01/2019 at:

<http://lmip.gov.au/default.aspx?LMIP/GainInsights/EmploymentProjections>

# Building Surveying Industry Trends



This section describes current and future trends projected to impact on the building surveying industry. The trends are presented in categories that overlap to varying degrees.



## Educational Trends

The role of Building Surveyors has evolved into many professions across the built environment, such as:

- professionals who assess, certify and inspect building works;
- as consultants working in design, fire safety, energy efficiency and access solutions;
- as educators and expert witnesses in support of the legal process.

The profession will continue to evolve and grow as building surveying skills and knowledge are needed in new and developing occupations across the built environment.<sup>5</sup>



**1. Are there any educational trends leading to skills changes for building surveyors that need to be discussed as part of the qualification review?**



## Political Trends

### Building Defects and Compliance and Regulation

The National Construction Code (NCC) is Australia's performance-based building and plumbing code. The NCC provides the *minimum necessary* requirements for the design, construction, performance and liveability of buildings in Australia and was developed to incorporate all on-site construction requirements into a single code.<sup>6</sup>

Recent publicised threats to public safety in the form of the Lacrosse (2014) and Neo200 (2019) fires and Opal Tower structural problems (2018)—not to mention the Grenfell tower fire in London in 2017—have raised the need for better conformity to the NCC in terms of compliance and regulatory systems, particularly in relation to non-conforming building products that do not meet Australian Standards. The presence of a growing body of

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<sup>55</sup> Australian Institute of Building Surveyors, *Building Surveying in Australia*, accessed online 31/01/2019 at: [https://aibs.com.au/Public/Building\\_Surveying\\_In\\_Australia/Public/Building\\_surveying\\_in\\_Australia.aspx?hkey=156e97c2-9377-4e93-8155-095cca559b28](https://aibs.com.au/Public/Building_Surveying_In_Australia/Public/Building_surveying_in_Australia.aspx?hkey=156e97c2-9377-4e93-8155-095cca559b28)

<sup>6</sup> *National Construction Code 2019*, accessed online 14/06/19 at: <https://www.business.gov.au/planning/templates-and-tools/industry-factsheets/national-construction-code>

academic literature (see, for instance, Johnston and Reid 2019) and whole-of-government initiatives (i.e. 2018 Senate Inquiry) is indicative of the level of concern.

Additionally, other building defects are becoming national issues for the construction industry, such as leaky building syndrome, which is causing costly defects particularly among high rise buildings and apartments.<sup>7</sup> In 2012, a University of New South Wales study found that 85% of all strata units had defects, which were caused by internal water leaks, cracks and water seeping in from outside. Leaks have also been experienced in the ACT, where placement of balcony floors at the same level of internal floors has seen water enter apartments.<sup>8</sup> The Victorian Building Authority noted that “waterproofing was possibly a systemic issue.” To date no Australian federal, state or local government has introduced measures to prevent leaky building syndrome.<sup>9</sup>

This has raised questions about how Australian standards and practices regarding waterproofing knowledge, installation and compliance can improve.

However, amongst many architects, designers and building surveyors, understanding of waterproofing is poor. This places responsibility for ensuring work is done correctly almost entirely onto the building contractor, and since waterproofing is not a licenced occupation in most states and there are little compliance rules beyond a certificate from the installer, this can lead to poor

waterproofing system design and installation. Additionally, the Australian construction industry does not have a great understanding of the effects of poor waterproofing, leading to a misunderstanding of its importance.<sup>10</sup>

### **The Shergold and Weir Report**

The building surveyor’s role in the compliance and enforcement systems for the building and construction industry in Australia has recently been reviewed as a result of the above-mentioned building fires in a report commissioned by the Building Ministers Forum (BMF) in 2017, known as the Shergold and Weir Report.<sup>11</sup>

The report details the limitations of the compliance and enforcement systems for the building and construction industry and makes 24 recommendations. Of interest to the building surveying industry are recommendations three and four.<sup>12</sup>

### ***Recommendation three***

The report notes that building practitioners across the industry do not have a enough understanding of the NCC which has led to non-compliance or poor-quality documentation of compliance. This is one explanation for the prevalence of non-compliant cladding on buildings across Australia.<sup>13</sup>

Therefore, recommendation three in the report states:

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<sup>7</sup> Lovegrove, K., 2017, “Leaky building syndrome: will Australia be the next to suffer?”, accessed online 21/05/2019 at: <https://sourceable.net/leaky-building-syndrome-will-australia-be-the-next-to-suffer/>

<sup>8</sup> Heaton, A., “Australia must improve waterproofing standards and practices”, accessed online 21/05/2019 at: <https://sourceable.net/australia-must-improve-waterproofing-standards-practices/>

<sup>9</sup> Lovegrove, K., 2017, “Leaky building syndrome: will Australia be the next to suffer?”, accessed online 21/05/2019 at:

<https://sourceable.net/leaky-building-syndrome-will-australia-be-the-next-to-suffer/>

<sup>10</sup> Ibid.

<sup>11</sup> Shergold, P. & Weir, B., 2018, *Building Confidence: Improving the Effectiveness of Compliance and Enforcement Systems for the Building and Compliance Industry Across Australia*. Retrieved from <https://aibs.com.au/Public/News/2018/ShergoldWeir.aspx>

<sup>12</sup> Recommendations 4, 9, 10 and 11 explicitly mention the role of building surveyors in non-NCC compliant structures.

<sup>13</sup> Ibid.

*That each jurisdiction requires all practitioners to undertake compulsory Continuing Professional Development on the National Construction Code.*<sup>14</sup>

#### **Recommendation four**

The report also notes that the industry is at risk of skills shortages into the future as the average age of building surveyors is now over fifty and there are ill-defined and inadequate career pathways to becoming a registered building surveyor.

For many other categories of building practitioner, careers are established through apprenticeships or other educational pathways. Given the criticality of building surveyors to industry, more needs to be done to encourage new entrants to this profession, especially for those who have experience in the building and construction industry.<sup>15</sup>

Recommendation four in the report is:

*That each jurisdiction establishes a supervised training scheme which provides a defined pathway for becoming a registered building surveyor.*<sup>16</sup>



- 2. What implications does the Shergold and Weir report have for building surveying training?**
- 3. How might the recommendations of Shergold and Weir report influence the review of these qualifications?**
- 4. Is there a greater need for building surveying qualifications to include knowledge evidence about commonly identified flaws such as waterproofing?**

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<sup>14</sup> Ibid.

<sup>15</sup> Ibid.

<sup>16</sup> Ibid.

# Building Surveying Training Information



## Relevant VET Qualifications

This project involves two Building Surveying qualifications:

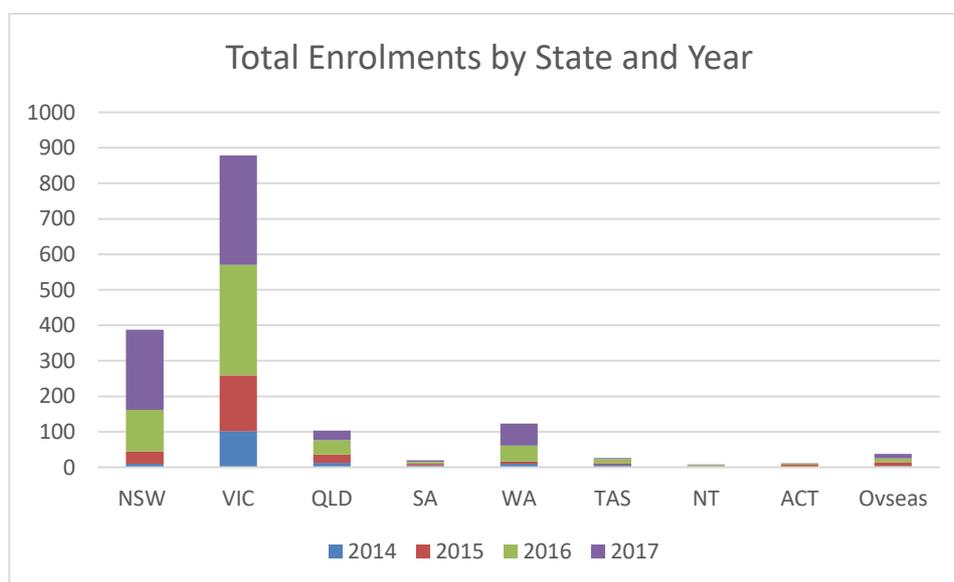
- CPC60115 Advanced Diploma of Building Surveying
- CPC80215 Graduate Diploma of Building Surveying

There are currently nine Registered Training Organisations (RTOs) with the *CPC60115 Advanced Diploma of Building Surveying* on scope. The *CPC80215 Graduate Diploma of Building Surveying* is not taught by any RTOs as there have been no enrolments in the last four years. *CPC60115 Advanced Diploma of Building Surveying* is delivered across five states – NSW, QLD, VIC, WA and TAS.<sup>17</sup>



## Enrolment Numbers

The below graph shows the total enrolments for *CPC60115 Advanced Diploma of Building Surveying* plus its superseded qualification *CPC60108 Advanced Diploma of Building Surveying* by state and year.<sup>18</sup> See Appendix B for further details on enrolment numbers.



<sup>17</sup> Training.gov.au, 2019, "CPC60115 – Advanced Diploma of Building Surveying", accessed online on 14/05/2019 at:

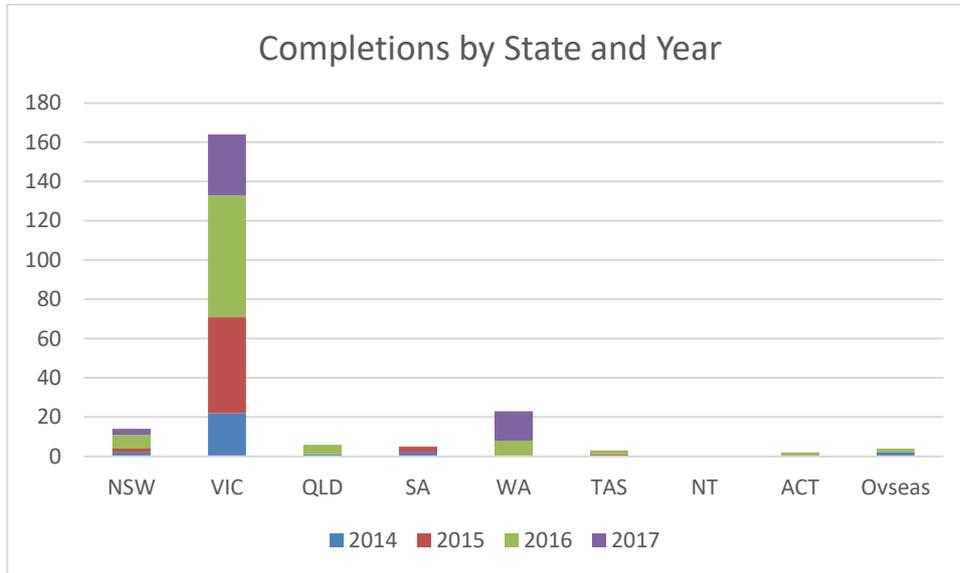
<https://training.gov.au/Training/Details/CPC60115>

<sup>18</sup> NCVET, 2019, "VOCSTATS Portal – Total VET program enrolments", accessed online on 14/05/2019 at: <http://vocstats.ncver.edu.au/>



## Completion Numbers

The below graph shows the total yearly completions for *CPC60115 Advanced Diploma of Building Surveying* plus its superseded qualification *CPC60108 Advanced Diploma of Building Surveying*.<sup>19</sup> See Appendix C for further details on completion numbers.



- 5. What do the enrolment and completion numbers tell us about the uptake of the qualification?**
- 6. There are clear differences in state enrolment and completion numbers – what might this mean for the qualification review?**

<sup>19</sup> NCVET, 2019, "VOCSTATS Portal – Total VET program completions", accessed online on 14/05/2019 at: <http://vocstats.ncver.edu.au/>

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<http://www.abs.gov.au/ausstats/abs@.nsf/Product+Lookup/1220.0~First+Edition,+Revision+1~Chapter~UNIT+GROUP+3121+Architectural,%20Building%20and%20Surveying%20Technicians>
- Australian Institute of Building Surveyors, 2019, *Building Surveying in Australia*, accessed online 31/01/2019 at:  
[https://aibs.com.au/Public/Building\\_Surveying\\_In\\_Australia/Public/Building\\_surveying\\_in\\_Australia.aspx?hkey=156e97c2-9377-4e93-8155-095cca559b28](https://aibs.com.au/Public/Building_Surveying_In_Australia/Public/Building_surveying_in_Australia.aspx?hkey=156e97c2-9377-4e93-8155-095cca559b28)
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<http://lmip.gov.au/default.aspx?LMIP/GainInsights/EmploymentProjections>
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## Appendix A – Licence and Regulation Information

State	Regulation	Title (of licence)	Licence details	Training requirements
NSW <sup>20</sup>	<i>Building Professionals Act 2005;</i> <i>Home Building Act 1989</i>	Accredited Certifier:  A1: Building Surveying Grade 1  A2: Building Surveying Grade 2  A3: Building Surveying Grade 3	There are three levels in which you can apply: <ul style="list-style-type: none"> <li>• <b>A1</b> - can certify all buildings</li> <li>• <b>A2</b> - can certify all class 1 and 10 buildings, and certain class 2-9 buildings</li> <li>• <b>A3</b> - can certify class 1 and 10 buildings that meet the deemed-to-satisfy provisions of the Building Code of Australia</li> <li>• <b>A4</b> - building inspector (pathway)</li> </ul> <p>Alternatively, licensing in NSW can be gained through following the</p>	Bachelor of Construction Management (Building) from University of Newcastle (from 2011 onwards) for all three <b>OR</b> <b>A1 – AQF7 (or higher)</b>  Various bachelor degrees, graduate diplomas etc.  <b>A2 – AQF6 (or equivalent)</b>  Advanced Diploma of Building Surveying  <b>A3 – AQF6 (Skills Set)</b> <i>Skill Set CPCSS00004 Provide building surveying services for residential buildings up to three storeys (seven units of competence).</i>  <b>A4 – Building Inspector</b>  Entry level – a pathway programme.

<sup>20</sup> <http://www.bpb.nsw.gov.au/become-certifier/criteria-and-experience>

			accreditation procedures of the Australian Institute of Building Surveyors (AIBS).	N.B. In order to begin professional practice, applicants must also: a) complete the Certification Short Course, University of Technology (UTS) or its equivalent b) pass the Building Professionals Board accreditation exam, or c) seek exemption via alternative testing.
VIC <sup>21</sup>	<i>Building Act 1993;</i> <i>Building Regulations 2018;</i> <i>National Construction Code</i>	Registered Building Practitioner	There are two classes in which you can apply to register: <ul style="list-style-type: none"> <li>• <b>Building Surveyor (Limited)</b></li> <li>• <b>Building Surveyor (Unlimited)</b></li> </ul>	<b>Building Surveyor (Limited) – (AQF 7, 6 or 5)</b> If you have successfully completed one of the following qualifications, you will satisfy the knowledge requirements for registration in the Building Surveyor (Limited) class: <ul style="list-style-type: none"> <li>• Bachelor of Building Surveying from Holmesglen Institute</li> <li>• Bachelor of Building Surveying from Victoria University</li> <li>• Advanced Diploma of Building Surveying (CPC60115).</li> </ul> If you have successfully completed the Diploma of

<sup>21</sup> <https://www.vba.vic.gov.au/building/registration/building-surveyor>

				<p>Building Surveying (CPC50108), you will satisfy some of the knowledge required for registration in the Building Surveyor (Limited) class.</p> <p>This qualification covers knowledge requirements associated with building surveying work for residential buildings, and domestic scale buildings.</p> <p><b>Building Surveyor (Unlimited) – AQF7 (or higher)</b></p> <p>If you have successfully completed one of the following qualifications, you will satisfy the knowledge requirements for registration in the Building Surveyor (Unlimited) class:</p> <ul style="list-style-type: none"> <li>• Bachelor of Building Surveying from Holmesglen Institute</li> <li>• Bachelor of Building Surveying from Victoria University.</li> </ul> <p>If you have successfully completed the Advanced Diploma in Building Surveying, you will satisfy some of the knowledge required for registration in this class.</p> <p>This qualification covers only the knowledge requirements associated with building</p>
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				surveying work for all classes of building up to three storeys in height.
QLD <sup>22</sup>	Section 151 of the <i>Building Act 1975</i> ;  <i>Building Regulation 2006</i>	Building Certifier Licence	<p>There are three classes in which you can apply to register:</p> <ul style="list-style-type: none"> <li>• <b>Level 1</b></li> <li>• <b>Level 2</b></li> <li>• <b>Level 3</b></li> </ul> <p>Licensing in QLD requires accreditation from either:</p> <ul style="list-style-type: none"> <li>• Royal Institution of Chartered Surveyors (RICS); <i>or</i></li> <li>• Australian Institute of Building Surveyors (AIBS)</li> </ul>	<p><b>Level 1 – AQF7</b></p> <p>May perform building certifying functions for all classes of buildings and structures (AQF7 or greater)</p> <p><b>Level 2 – AQF6</b></p> <p><b>a.</b> without the supervision of a building certifier level 1 - perform building certifying functions on buildings and structures having a rise of no more than 3 storeys and a total floor area no more than 2000m<sup>2</sup>; or</p> <p><b>b.</b> under the supervision of a building certifier level 1 – help in assessing and inspecting all classes of buildings and structures.</p> <p><b>Level 3 – AQF6 (Skills Set – or equivalent)</b></p> <p>May only perform building certifying functions on class 1 buildings or class 10 buildings or structures.</p>
SA <sup>23</sup>	<i>Development Act 1993</i> ;	Private Certifier	<p>There are three levels in which you can register. Registration follows the</p>	<p><b>Certifier Level 1 (Building Surveyor) – AQF7</b></p> <p>Degree in Building Surveying, or RPL within 5 years, plus 3 years relevant experience.</p>

<sup>22</sup> <https://www.planning.act.gov.au/build-buy-renovate/for-industry/construction-licences/apply-for-a-construction-licence/building-surveyor-licence>

<sup>23</sup> [https://www.saplanningportal.sa.gov.au/current\\_planning\\_system/building\\_policy/private\\_certification](https://www.saplanningportal.sa.gov.au/current_planning_system/building_policy/private_certification)

	<i>Development Regulations 2008</i>		<p>national accreditation framework:</p> <ul style="list-style-type: none"> <li>• <b>Certifier Level 1 (Building Surveyor)</b></li> <li>• <b>Certifier Level 2 (Asst. Building Surveyor) –</b></li> <li>• <b>Certifier Level 3 (Building Surveying Technician)</b></li> </ul>	<p><b>Certifier Level 2 (Asst. Building Surveyor) – AQF6 (or equivalent)</b></p> <p>Advanced Diploma in Building Surveying or RPL within 5 years plus 2 years relevant experience.</p> <p><b>Certifier Level 3 (Building Surveying Technician) – AQF5</b></p> <p>Diploma in Building Surveying or RPL within 5 years plus 12 months of relevant Experience.</p>
WA <sup>24</sup>	<i>Building Act 2011 Building Services (Registration) Regulations 2011</i>	Building surveying practitioner registration	<p>There are three levels in which you can register.</p> <ul style="list-style-type: none"> <li>• <b>Building surveying Work Level 1</b></li> <li>• <b>Building Surveying Work Level 2</b></li> <li>• <b>Technician</b></li> </ul>	<p><b>Level 1 – AQF7 (or equivalent)</b></p> <p>Bachelor of Building Surveying and Certification granted by the Central Queensland University; or an equivalent qualification as determined by the Board.</p> <p>Level 1 means building surveying work in respect of any building or incidental structure</p> <p><b>Level 2 – AQF6 (or equivalent)</b></p> <p>CPC60108 Advanced Diploma in Building Surveying</p> <p>Level 2 means building surveying work in respect of — (a) a Class 1 or Class 10 building or incidental structure; or (b) a Class 2 to 9 building or incidental structure — (i)</p>

<sup>24</sup> <https://www.commerce.wa.gov.au/building-commission/building-surveying-practitioner-registration>

				with a floor area up to 2 000 m <sup>2</sup> ; and (ii) not more than 3 storeys in height.
TAS <sup>25</sup>	<i>Building Act 2016</i> <i>Occupational Licensing Act 2005</i>	Building surveyor licence	There are two classes for building surveyor: <ul style="list-style-type: none"> <li>• <b>Building surveyor licence</b></li> <li>• <b>Building surveyor limited licence</b></li> </ul>	<b>Building surveyor licence – AQF7 (or equivalent)</b>  Must have a degree in building surveying (AQF7) and 3 years relevant experience.  <b>Building surveyor limited licence – AQF6</b> Must have an advanced diploma in building surveying (AQF6) and 3 years relevant experience.
NT <sup>26</sup>	Section 24(1)(b) of the <i>Building Act 1993</i>	Building Certifier	There are two classes for building surveyor: <ul style="list-style-type: none"> <li>• <b>Building certifier (unrestricted)</b></li> <li>• <b>Building certifier (residential)</b></li> </ul> <p>Alternatively, licensing in the NT can be gained via following accreditation procedures of the</p>	<b>Building certifier (unrestricted) – AQF7 (or higher)</b>  All classes of buildings and structures; <i>plus</i>  4 years practical experience in building surveying in relation to all classes of buildings  <b>Building certifier (residential) – AQF6 (or equivalent)</b>  Class 1 and 10 buildings and structures only; <i>plus</i>  3 years practical experience in building surveying of Class 1 and Class 10 buildings

<sup>25</sup> <https://www.cbos.tas.gov.au/topics/licensing-and-registration/licensed-occupations/building-provider-licences/building-surveyor>

<sup>26</sup> <https://nt.gov.au/industry/licences/builders-and-building-certifiers>

			Australian Institute of Building Surveyors (AIBS).	
ACT <sup>27</sup>	<i>Building Act 2004</i> <i>Building (General) Regulation 2008</i> <i>Construction Occupations (Licensing) Act 2004</i> <i>Construction Occupations (Licensing) Regulation 2004</i> <i>Construction Occupations (Licensing) (Qualifications—Builder and Building Surveyor Licences) Declaration 2019</i>	Building surveyor (private certifier) licence	<p>There are two classes for building surveyor:</p> <ul style="list-style-type: none"> <li>• <b>Principal Building Surveyor</b></li> <li>• <b>General Building Surveyor</b></li> </ul>	<p><b>Principal Building Surveyor – AQF7 (or higher)</b></p> <p>Licence authorises the building certification work or, for a corporation, supervision of building certification work.</p> <p>Accreditation must be through either:</p> <ul style="list-style-type: none"> <li>- Institution of Engineers Australia; <i>or</i></li> <li>- Australian Institute of Building Surveyors</li> </ul> <p><b>General Building Surveyor) – AQF6</b></p> <p>Licence authorises building certification work or, for a corporation, supervision of building certification work, in relation to a building that is 3 storeys or lower and that has a floor area of 2,000m<sup>2</sup> or less.</p> <p>Accreditation must be through either:</p> <ul style="list-style-type: none"> <li>- Australian Institute of Building Surveyors</li> </ul>

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<sup>27</sup> [https://www.accesscanberra.act.gov.au/app/answers/detail/a\\_id/3151#!tabs-1](https://www.accesscanberra.act.gov.au/app/answers/detail/a_id/3151#!tabs-1)

## Appendix B – Enrolment Numbers

CPC60115 Advanced Diploma of Building Surveying and CPC60108 Advanced Diploma of Building Surveying (superseded qualification) **enrolments** by state and year 2014-2017

State by Qualification	2014	2015	2016	2017
NSW CPC60108	10	14	10	0
NSW CPC60115	0	21	107	226
<b>Total</b>	<b>10</b>	<b>35</b>	<b>117</b>	<b>226</b>
VIC CPC60108	102	143	56	0
VIC CPC60115	0	14	255	309
<b>Total</b>	<b>102</b>	<b>157</b>	<b>311</b>	<b>309</b>
QLD CPC60108	13	15	10	0
QLD CPC60115	0	8	30	27
<b>Total</b>	<b>13</b>	<b>23</b>	<b>40</b>	<b>27</b>
SA CPC60108	5	4	0	0
SA CPC60115	0	1	5	5
<b>Total</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
WA CPC60108	10	2	7	0
WA CPC60115	0	4	38	62
<b>Total</b>	<b>10</b>	<b>6</b>	<b>45</b>	<b>62</b>
TAS CPC60108	7	5	8	0
TAS CPC60115	0	0	3	3
<b>Total</b>	<b>7</b>	<b>5</b>	<b>11</b>	<b>3</b>
NT CPC60108	1	0	3	0
NT CPC60115	0	0	2	2
<b>Total</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>2</b>
ACT CPC60108	1	3	2	0
ACT CPC60115	0	3	2	1
<b>Total</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>1</b>
Overseas CPC60108	4	10	1	0
Overseas CPC60115	0	0	10	13
<b>Total</b>	<b>4</b>	<b>10</b>	<b>11</b>	<b>13</b>

## Appendix C – Completion Numbers

CPC60115 Advanced Diploma of Building Surveying and CPC60108 Advanced Diploma of Building Surveying (superseded qualification) **completions** by state and year 2014-2017

State by Qualification	2014	2015	2016	2017
NSW CPC60108	2	2	7	0
NSW CPC60115	0	0	0	3
<b>Total</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>3</b>
VIC CPC60108	22	49	53	2
VIC CPC60115	0	0	9	29
<b>Total</b>	<b>22</b>	<b>49</b>	<b>62</b>	<b>31</b>
QLD CPC60108	1	0	5	0
QLD CPC60115	0	0	0	0
<b>Total</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>0</b>
SA CPC60108	2	3	0	0
SA CPC60115	0	0	0	0
<b>Total</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>
WA CPC60108	0	0	8	0
WA CPC60115	0	0	0	15
<b>Total</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>15</b>
TAS CPC60108	0	1	2	0
TAS CPC60115	0	0	0	0
<b>Total</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>
NT CPC60108	0	0	0	0
NT CPC60115	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
ACT CPC60108	0	0	2	0
ACT CPC60115	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>
Overseas CPC60108	2	0	2	0
Overseas CPC60115	0	0	0	0
<b>Total</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>

# Appendix D – Unit of Competency Enrolments

CPC60115 Advanced Diploma of Building Surveying and CPC60108 Advanced Diploma of Building Surveying units of competency enrolments 2014-2017.

Unit of Competency	2014	2015	2016	2017
CPCCBS6001 - Research and evaluate construction methods and materials for residential buildings to three storeys	0	47	430	624
CPCCBS6002 - Research and evaluate construction methods and materials for commercial buildings to three storeys	0	0	36	314
CPCCBS6003 - Apply legal and ethical requirements to building surveying functions	0	0	77	273
CPCCBS6004 - Assess and advise on compliance of design documentation for residential buildings to three storeys	0	0	337	526
CPCCBS6005 - Assess and advise on compliance of design documentation for commercial buildings to three storeys	0	0	11	317
CPCCBS6006 - Process planning applications for residential buildings up to three storeys	0	0	293	487
CPCCBS6007 - Process planning applications for commercial buildings up to three storeys	0	0	6	129
CPCCBS6008 - Process building applications for residential buildings up to three storeys	0	0	198	390
CPCCBS6009 - Process building applications for commercial buildings up to three storeys	0	0	16	142
CPCCBS6010 - Conduct and report on building surveying audits of residential buildings up to three storeys	0	0	174	341
CPCCBS6011 - Conduct and report on building surveying audits of commercial buildings up to three storeys	0	0	10	229
CPCCBS6012 - Conduct and report on initial construction inspections of residential buildings up to three storeys	0	0	98	367

CPCCBS6013 - Conduct and report on initial construction inspections of commercial buildings up to three storeys	0	0	19	232
CPCCBS6014 - Conduct and report on advanced and final inspections of residential buildings up to three storeys	0	0	88	312
CPCCBS6015 - Conduct and report on advanced and final inspections of commercial buildings up to three storeys	0	0	22	101
CPCCBS6016 - Assess and advise on performance-based solutions for buildings up to three storeys	0	0	9	261
CPCCBS6017 - Monitor and advise on construction and compliance upgrade work on buildings up to three storeys	0	0	14	106
CPCCBS8004 - Advise on compliance of building design documentation	0	0	10	22
CPCCBS8009 - Lead a building surveying team	0	0	0	9
CPCCSV5001A - Assess the construction of domestic scale buildings	1209	1155	787	387
CPCCSV5002A - Evaluate materials for construction of domestic scale buildings	850	987	462	208
CPCCSV5003A - Produce working drawings for residential buildings	508	823	386	165
CPCCSV5004A - Apply legislation to urban development and building controls	512	602	478	178
CPCCSV5005A - Apply footing and geomechanical design principles to domestic scale buildings	477	705	475	154
CPCCSV5006A - Assess construction faults in residential buildings	433	615	423	128
CPCCSV5007A - Undertake site surveys and set-out procedures for building projects	594	935	739	390
CPCCSV5008A - Apply building control legislation to building surveying	379	612	480	154
CPCCSV5009A - Assess the impact of fire on building materials	365	622	458	130

CPCCSV5010A - Interact with clients in a regulated environment	815	852	578	204
CPCCSV5011A - Apply building codes and standards to residential buildings	434	665	465	138
CPCCSV5012A - Assess timber-framed designs for one and two storey buildings	460	695	667	501
CPCCSV5013A - Apply principles of energy efficient design to buildings	805	1105	820	350
CPCCSV5014A - Apply building surveying procedures to residential buildings	343	589	487	181
CPCCSV5015A - Assess structural requirements for domestic scale buildings	335	634	452	164
CPCCSV6001A - Assess the construction of buildings up to three storeys	88	87	46	0
CPCCSV6002A - Produce working drawings for buildings up to three storeys	89	116	45	0
CPCCSV6003A - Assess construction faults in buildings up to three storeys	89	81	42	0
CPCCSV6004A - Apply footing and geomechanical design principles to buildings up to three storeys	86	116	44	0
CPCCSV6005A - Evaluate services layout and connection methods for residential and commercial buildings up to three	112	84	47	0
CPCCSV6006A - Evaluate the use of concrete for residential and commercial buildings up to three storeys	82	112	44	0
CPCCSV6007A - Assess structural requirements for buildings up to three storeys	79	119	41	0
CPCCSV6008A - Apply building codes and standards to buildings up to three storeys	87	80	54	0
CPCCSV6009A - Implement performance-based codes and risk management principles for buildings up to three storeys	79	91	46	0
CPCCSV6010A - Apply fire technology to buildings up to three storeys	68	89	52	0

CPCCSV6011A - Apply legal procedures to building surveying	78	114	46	0
CPCCSV6012A - Facilitate community development consultation	74	122	41	0
CPCCSV6013A - Coordinate building refurbishment	82	83	49	0
CPCCSV6014A - Manage and plan land use	70	129	46	0
CPCCSV6015A - Analyse and present building surveying research information	72	92	55	0
CPCCSV6016A - Apply building surveying procedures to buildings up to three storeys	79	79	44	0