

BOSSI Statistical Review 2014-2015

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30 June 2015

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Introduction

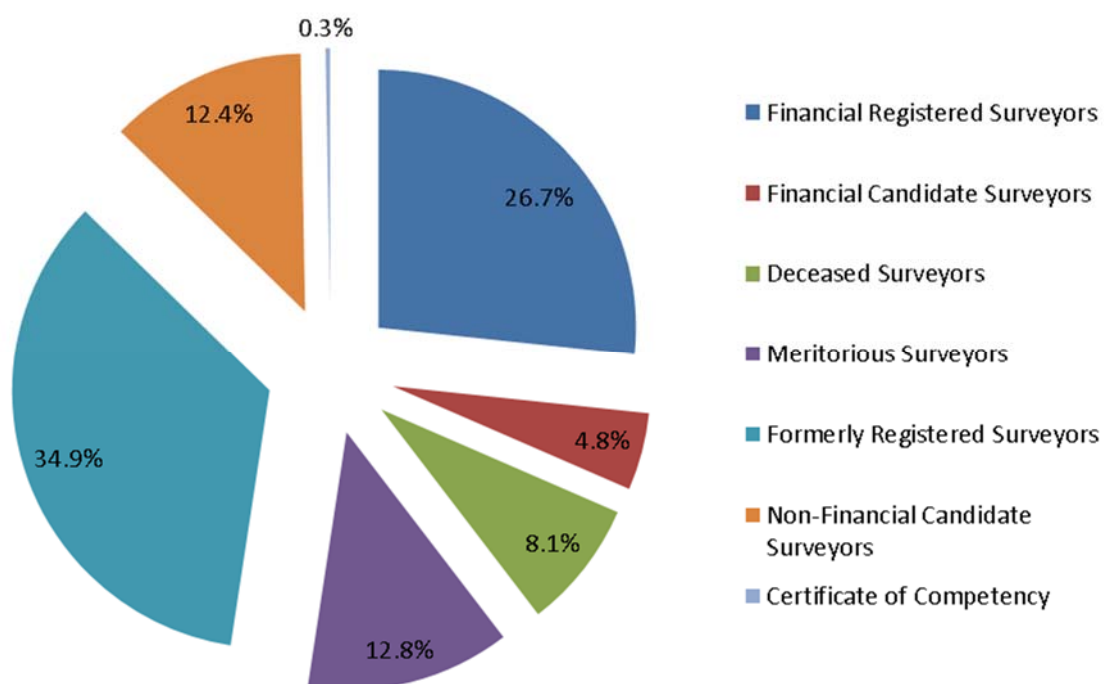
The Board of Surveying and Spatial Information (BOSSI) is a statutory board constituted under the *Surveying and Spatial Information Act 2002*. Its principal functions are:

- The registration of surveyors.
- The investigation of complaints against registered surveyors.
- The taking of disciplinary action against registered surveyors.
- The investigation of matters referred to it by the Minister for advice or report in relation to surveying or any other aspect of the spatial information industry.
- The investigation of, and the provision of advice to the Minister with respect to, the practice to be followed in the conduct of surveys or in the collection, collation and dissemination of any other kinds of spatial information.
- The provision of advice to the Minister on the maintenance of the integrity of the State cadastre.
- The provision of advice to the Minister with respect to any other matter in connection with the administration of the *Surveying and Spatial Information Act 2002*.

BOSSI Register

The BOSSI Register contains details for all registered surveyors and candidate surveyors since 1929 when the first Surveyors Act was enacted in NSW and the Board of Surveyors (BOS) was formed under that Act. In 2002 the Board of Surveyors was renamed the Board of Surveying and Spatial Information (BOSSI) when the Surveying and Spatial Information Act was enacted.

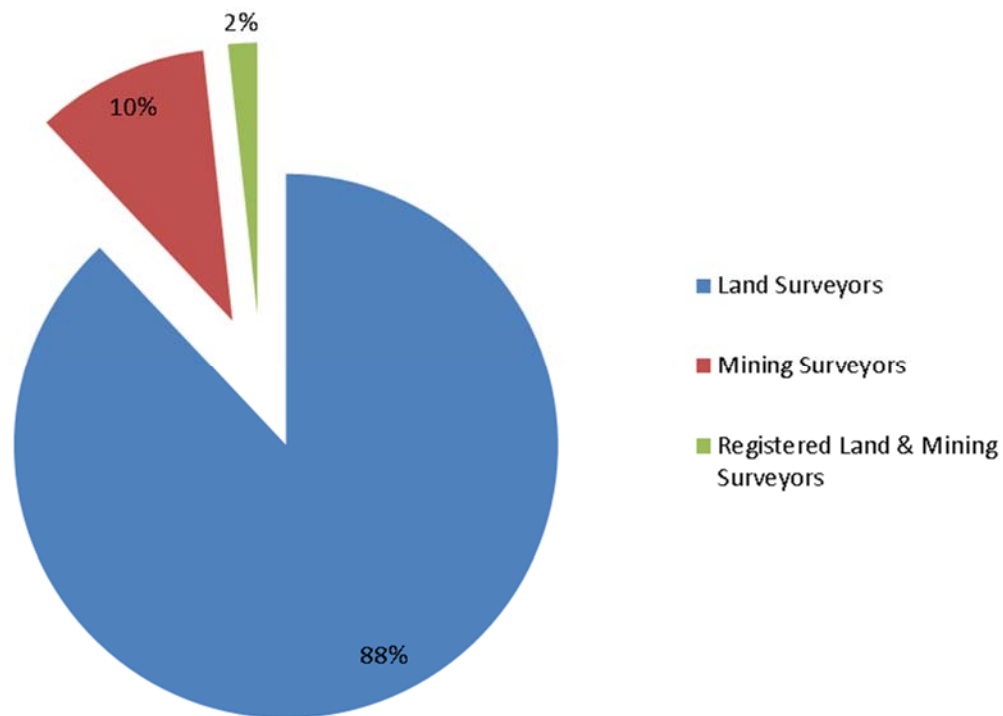
Currently the Register contains 3906 surveyor entries. Of these 1041 are financial registered surveyors, 189 are financial candidate surveyors, 315 are deceased, 501 are meritorious surveyors, 1361 are formerly registered surveyors, 485 are non-financial candidate surveyors, and 11 surveyors have received their certificate of competency but have not applied for registration.



Financial Registered Surveyors

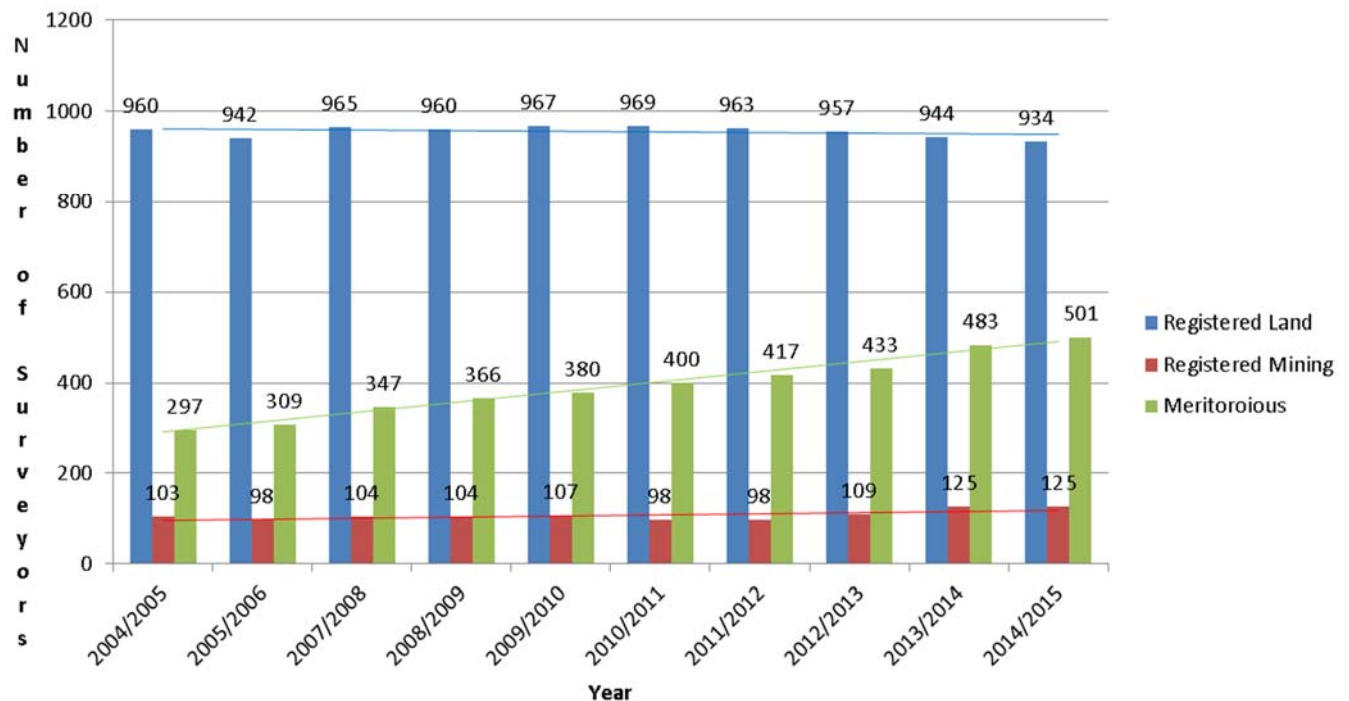
BOSSI registers surveyors in two disciplines being land surveying and mining surveying. Current number of financial registered surveyors as of June 2015 is as follows:

Registered Land Surveyors	916
Registered Mining Surveyors	107
Registered Land & Mining Surveyors	18
Total	1041



The trend in registered surveyor numbers since 2004 is show below. This trend shows a slight dip in registered land surveyors and a slight increase for registered mining surveyors but overall the general trend is quite flat indicating that enough candidate surveyors are becoming registered each year to counter the number of registered surveyors who are retiring or leaving the profession.

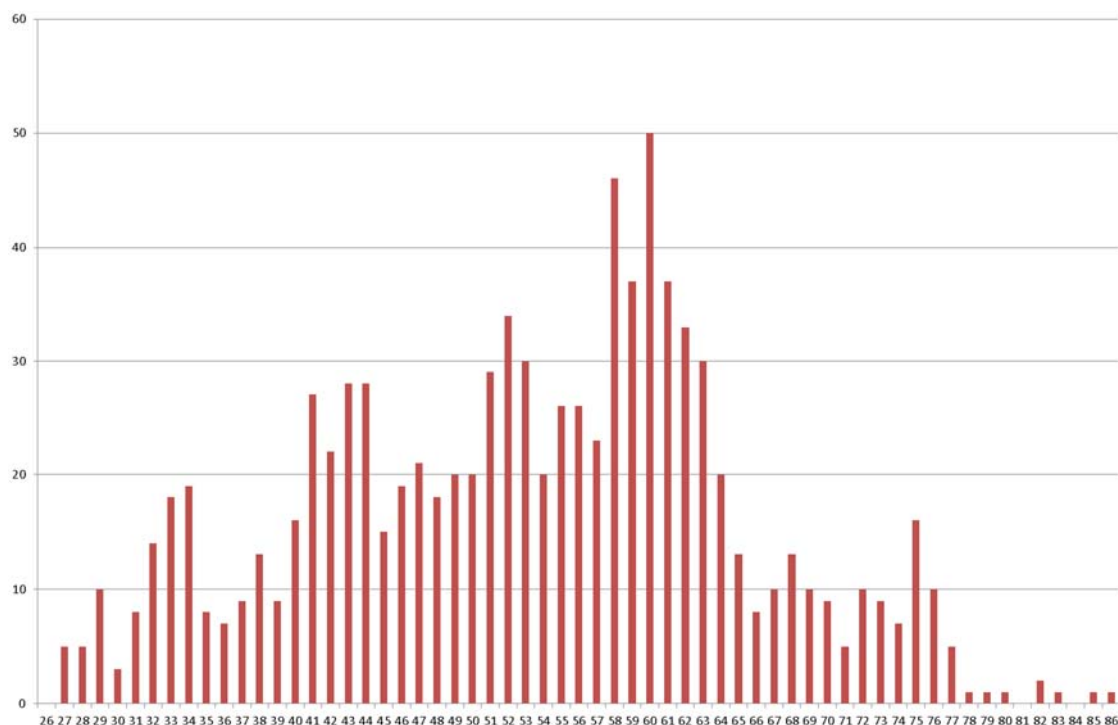
Registered Surveyors



Registered Land Surveyors

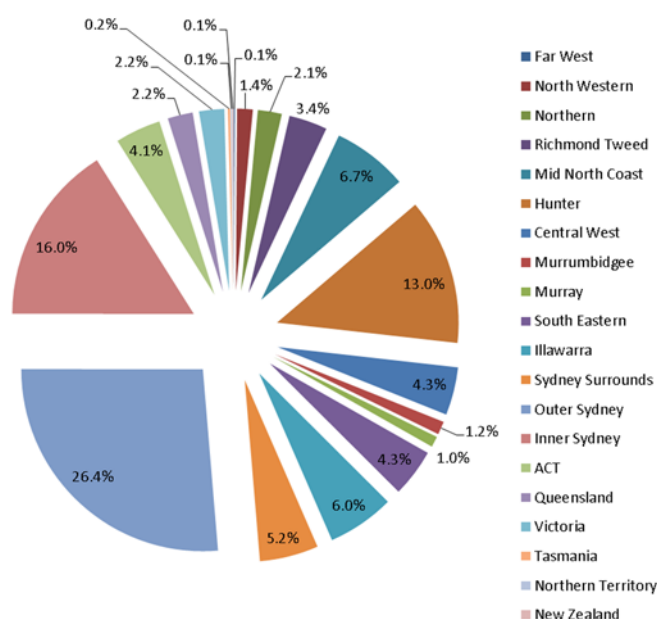
Age

The age range of financial registered land surveyors is shown below. The average age of financial registered land surveyors on the Board's register is 53 and the age group with the largest number of surveyors is the 60 year age group. The oldest financial registered surveyor is 86 and the youngest is 27.



Area

The areas which financial registered land surveyors on the Board's register are located are shown in the following graph. The largest grouping is the Outer Sydney area, with the Inner Sydney area coming second and the Hunter are third. There are also a number of interstate surveyors in ACT, Queensland, Victoria, South Australia, Tasmania and Northern Territory with 1 surveyor from New Zealand.



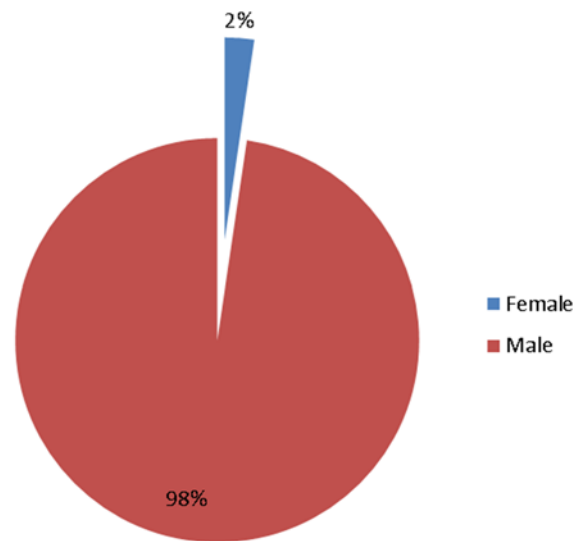
Degree

The majority of financial registered land surveyors have graduated from the University of NSW. The second highest group being the University of Newcastle and the third via the old Articles system. There are also a number of interstate and overseas qualified surveyors as detailed in the table below:

University of NSW	509
University of Newcastle	184
Articles	64
Queensland University of Technology	38
University of Southern Queensland	26
Western Australian Institute of Technology	22
Royal Melbourne Institute of Technology	21
Otago University	13
University of Tasmania	9
University of Melbourne	9
Curtin University	5
Canberra University	5
University of South Australia	4
University of Warsaw	2
Moscow Engineering Institute of Geodesy, Aerial Photography and Cartography	2
University of Belgrade	1
National University of La Plata	1
University of Queensland	1
University of Calgary	1
Northern Territory Qualifications	1
Coal Mines Surveyor's Certificate of Competency	1
University of Cape Town	1
SA Institute Technology	1
University of Architecture, Civil Engineering and Geodesy, Sofia	1
AGH University of Science & Tech Poland	1
Wuhan Technical University	1
Not Specified	13
Total	937

Gender

The majority of financial registered land surveyors are male. Currently there are 22 female registered land surveyors.



Sector

The majority of financial registered land surveyors are employed in the private sector as indicated in the table below:

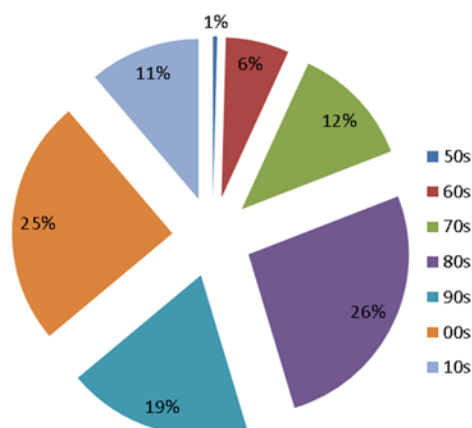
Private	819
NSW Local Govt	23
NSW State Govt	90
ACT Govt	3
Federal Govt	1
University	1
Total	937

The number of private companies employing registered land surveyors is 396. Of these 396 companies, 260 companies have only the 1 registered land surveyor. There are currently 15 companies that employ more than 5 registered land surveyors.

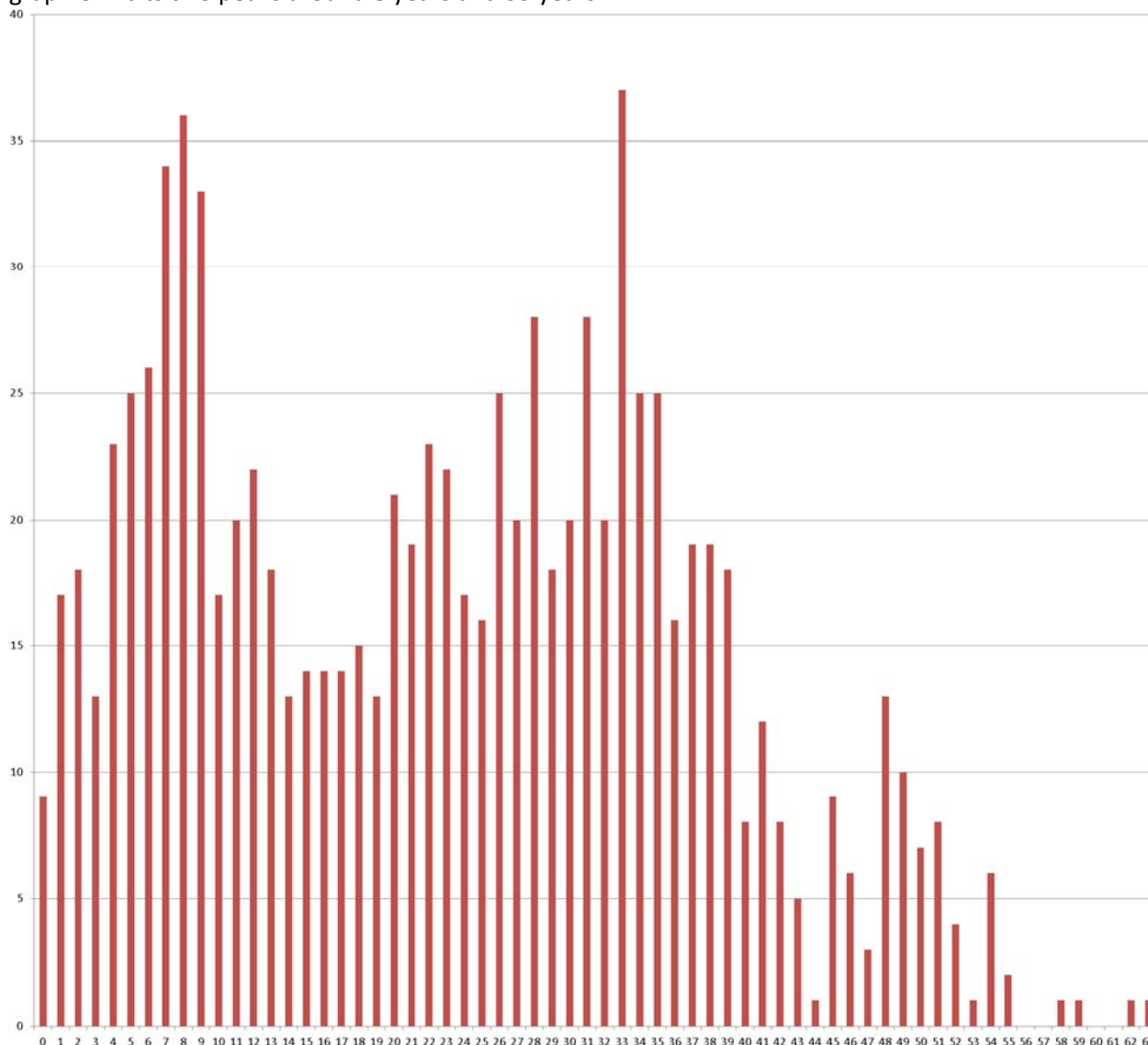
Registered land surveyors employed in the NSW State Government sector are primarily located at Roads & Maritime Services, Land & Property Information, and RailCorp.

Registration

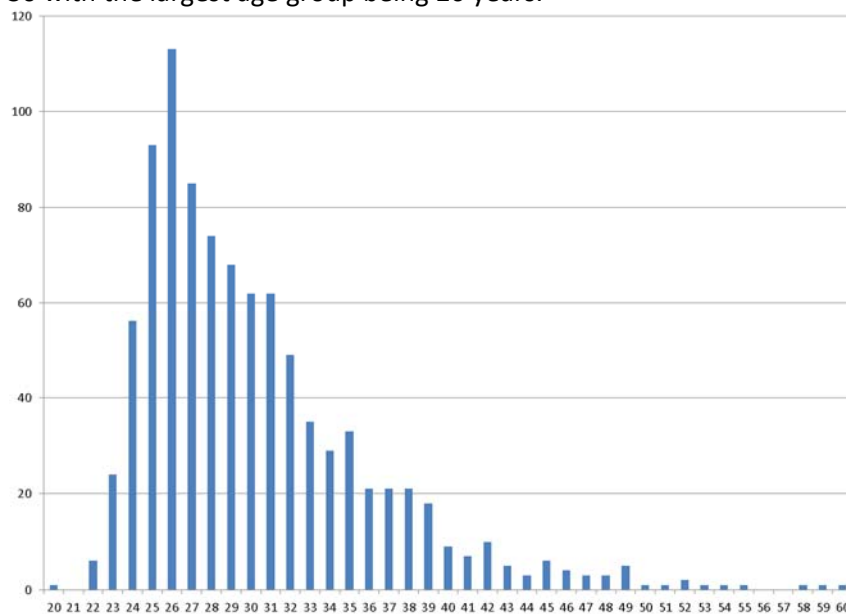
The initial registration of the current financial registered land surveyors spans from the 50s to the present date. The biggest group are surveyors who gained registration in the 80s followed by the 00s and the 90s.



The following graph shows the length of time current financial registered land surveyors have been registered. The longest span of registration is 63 years, with the average being 23 years and the graph exhibits two peaks around 8 years and 33 years.

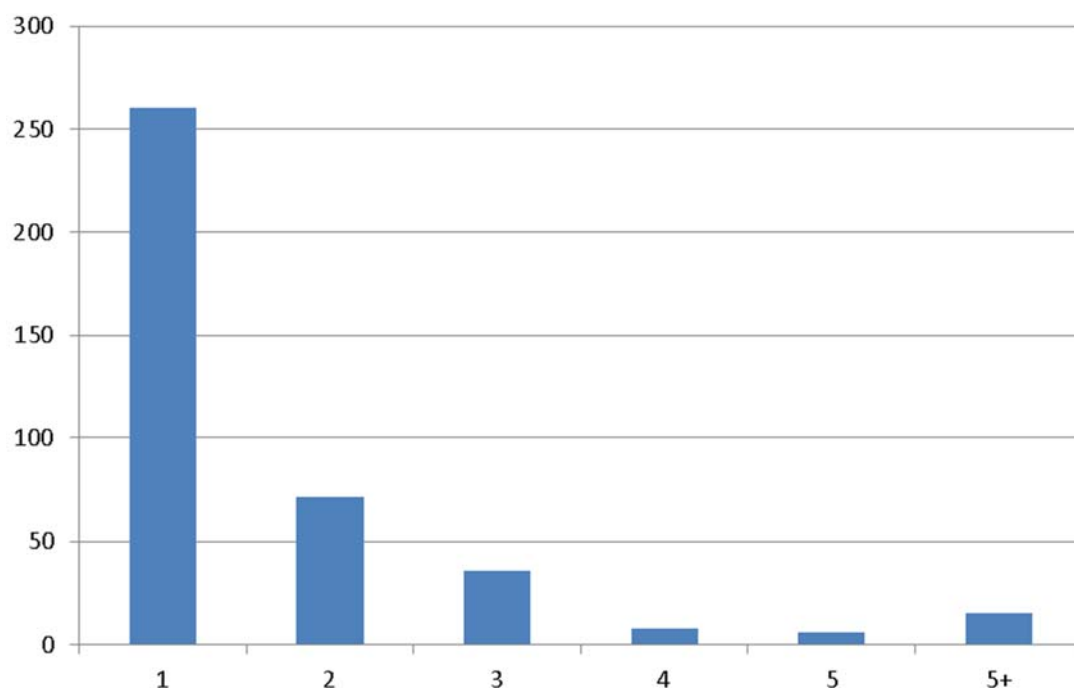


The age of land surveyors when they have gained registration is displayed below. Most surveyors gained their initial registration in their 20s, with the youngest being 20 and the oldest being 60. The average age is 30 with the largest age group being 26 years.

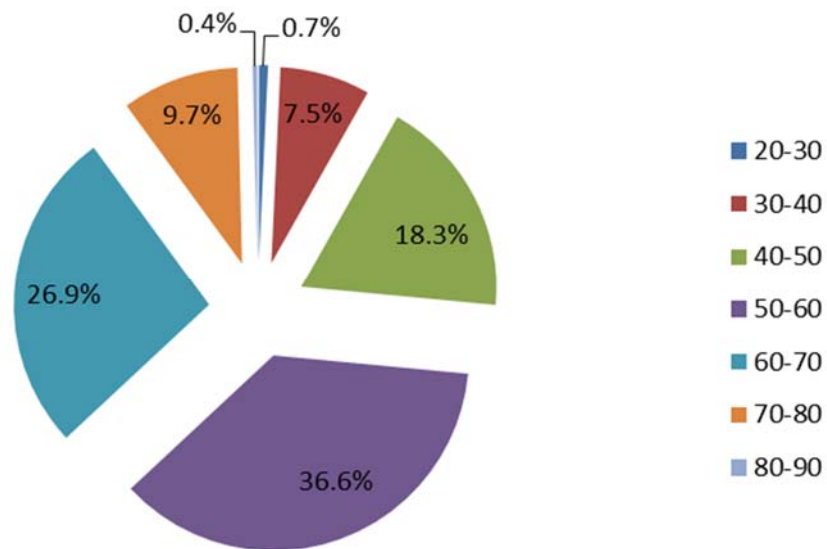


Land Surveying Firms

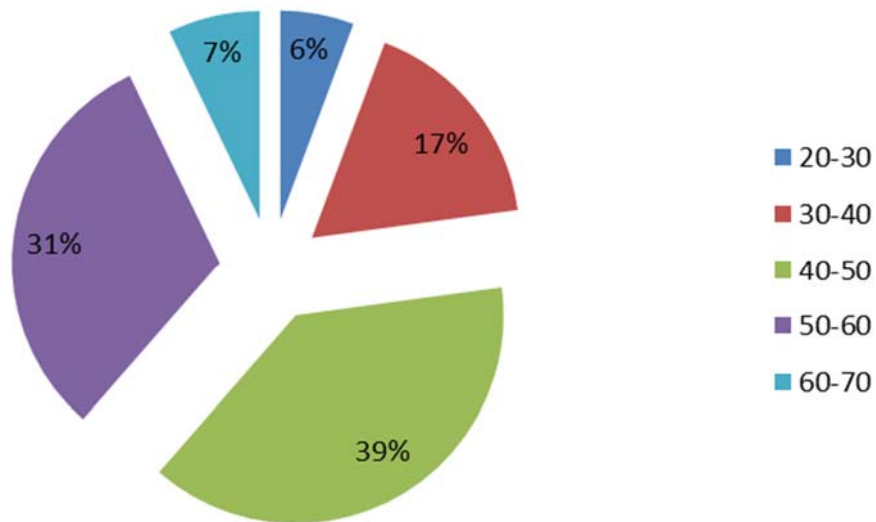
There are currently 396 Land Surveying firms who are employing Registered Land Surveyors. The majority of these employ only the one Registered Land Surveyor with 15 firms having more than 5 registered surveyors employed at their firm.



Of the firms who employ the one Registered Land Surveyor, the majority of these surveyors are in the 50-60 age group and the 60-70 age group.



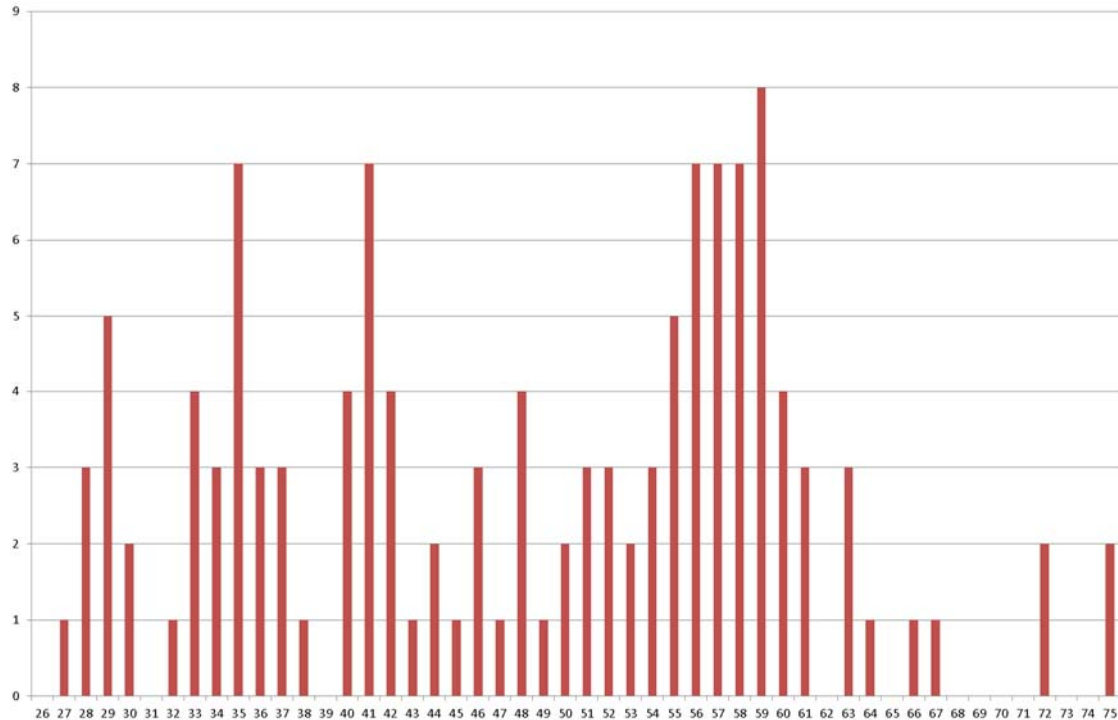
Of the firms who employ two Registered Land Surveyors, the majority of these surveyors are in the 40-50 age group and the 50-60 age group.



Registered Mining Surveyors

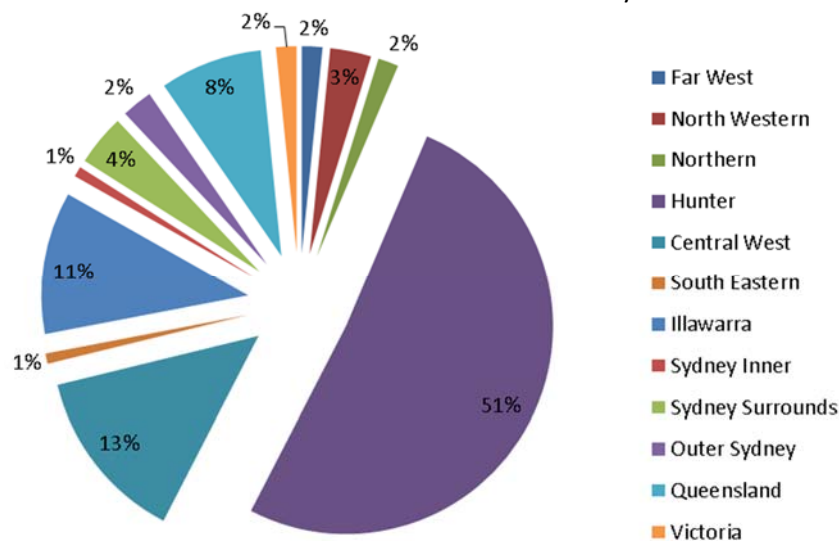
Age

The age range of financial registered mining surveyors is shown below. The average age of financial registered mining surveyors on the Board's register is 48 and the age group with the largest number of surveyors is the 59 year age group. The oldest financial registered mining surveyor is 75 and the youngest is 27.



Area

The areas which financial registered mining surveyors on the Board's register are located are shown in the following graph. The largest grouping is the Hunter, with the Central West coming second and the Illawarra are third. There are also a number of interstate surveyors in Queensland and Victoria.



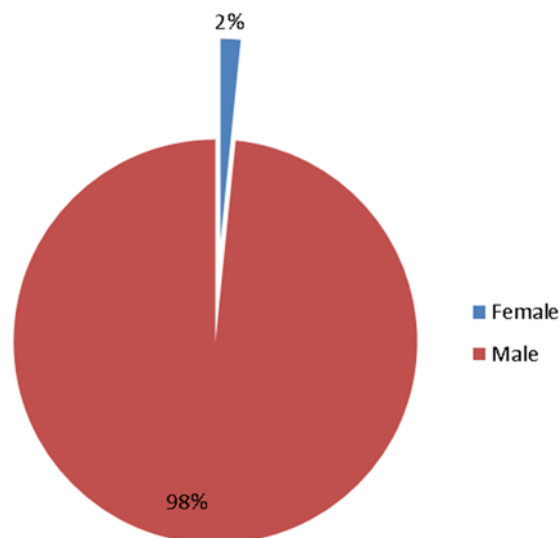
Degree

The majority of financial registered mining surveyors have come through the previous mining surveyor certificate of competency, with the next grouping coming from the University of Southern Queensland, TAFE and University of Newcastle. There are also a number of interstate and overseas qualified surveyors as detailed in the table below:

Mining Surveyor Certificate of Competency	56
University of Southern Queensland	15
TAFE	15
University of Newcastle	13
University of NSW	10
Royal Melbourne Institute of Technology	2
University of South Australia	2
Queensland University of Technology	1
Moscow Engineering Institute of Geodesy, Aerial Photography and Cartography	1
University of Exeter	1
University of Zimbabwe	1
Not Specified	8
Total	125

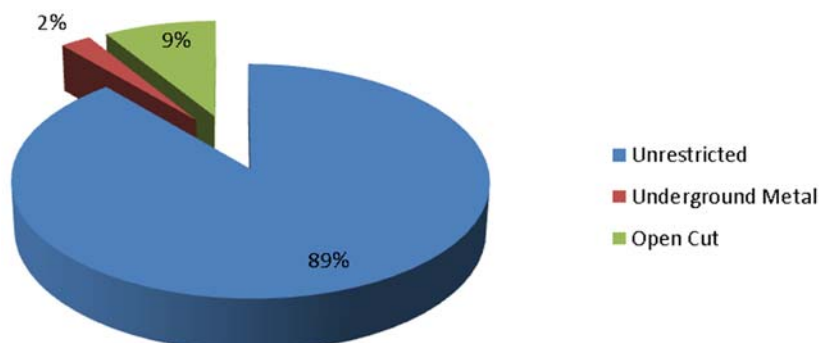
Gender

The majority of financial registered mining surveyors are male. Currently there are 2 female registered mining surveyors.

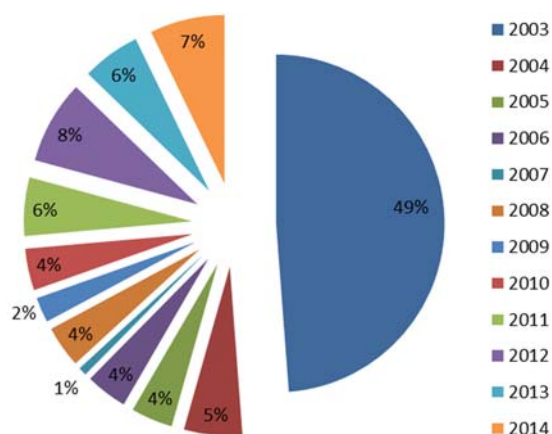


Registration

Currently the Board has three categories of mining surveying registration, being unrestricted, underground metalliferous mines, and open cut mines. Of the current financial registered mining surveyors the majority have an unrestricted registration with 3 surveyors having an underground metalliferous registration and 11 having an open cut registration.

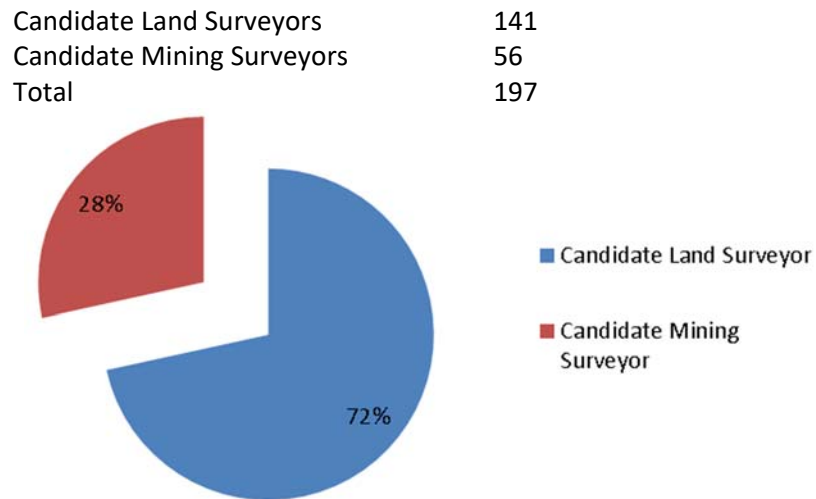


As mining surveying registration under the Surveying and Spatial Information Act 2002 was only introduced when the Act commenced, the initial date of registration for financially registered mining surveyors in the Board's register spans from 2003 to present and the majority of these being in 2003. Since 2003 there have been on average of 5 mining surveyors become registered with 2012 having the biggest year of 10 and 2007 having the smallest year of 1.

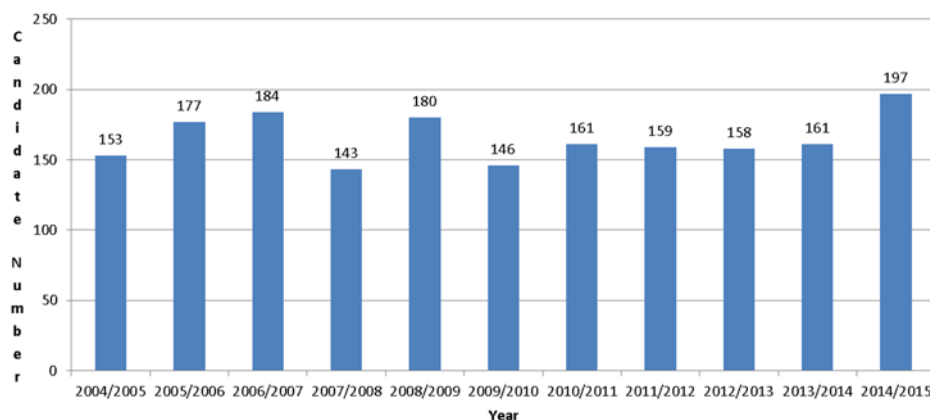


Financial Candidate Surveyors

BOSSI enrolls candidate surveyors in two disciplines being land surveying and mining surveying. Current number of financial candidate surveyors as of June 2014 is as follows:



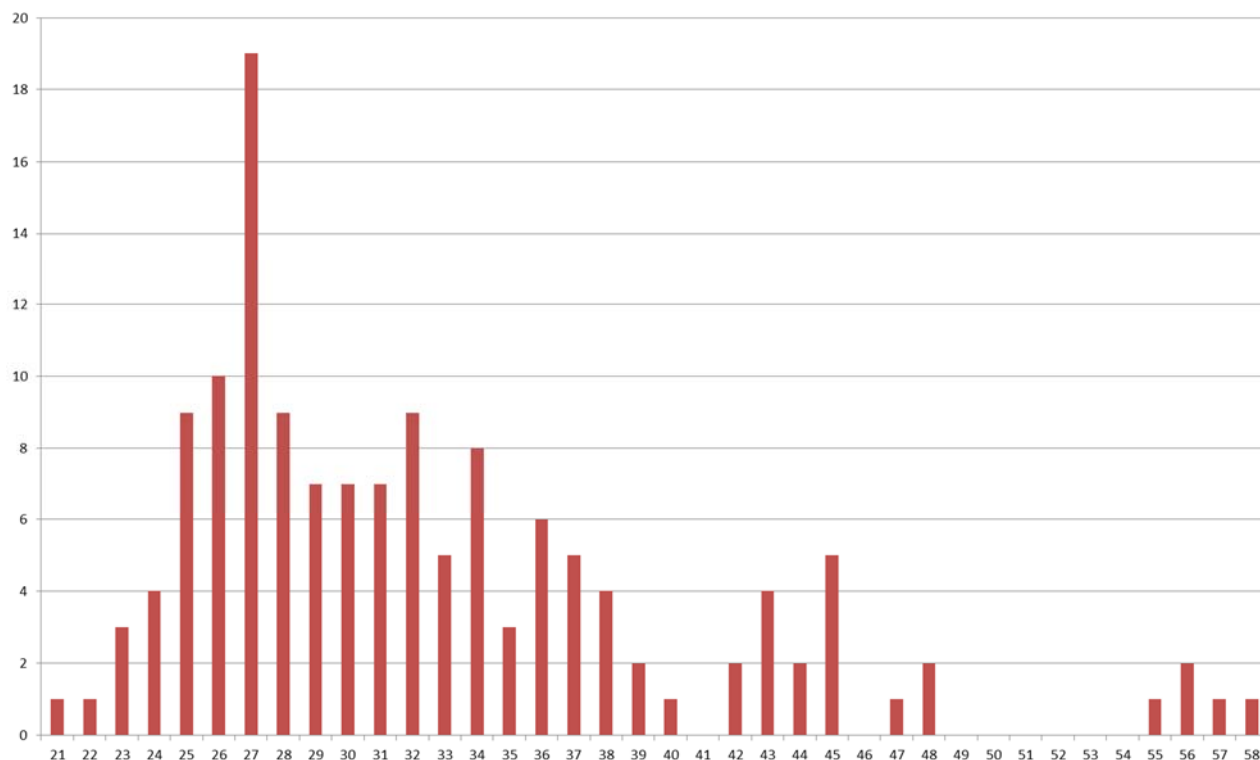
The trend in candidate surveyor numbers since 2004 is shown below. The trend has been up and down with a high of 197 in 2014/2015.



Candidate Land Surveyors

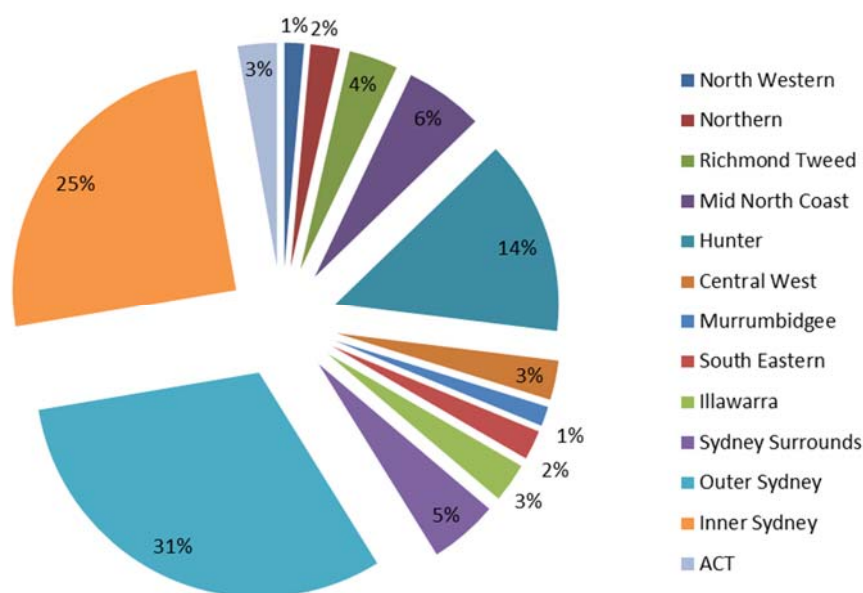
Age

The age range of financial candidate land surveyors is shown below. The average age of financial candidate land surveyors on the Board's register is 32 and the age group with the largest number of surveyors is the 27 year age group. The oldest financial candidate surveyor is 58 and the youngest is 21.



Area

The areas which financial candidate land surveyors on the Board's register are located are shown in the following graph. The largest grouping is the Outer Sydney area, with the Inner Sydney area coming second and the Hunter are third. There are also 4 candidates from the ACT but no interstate candidates.



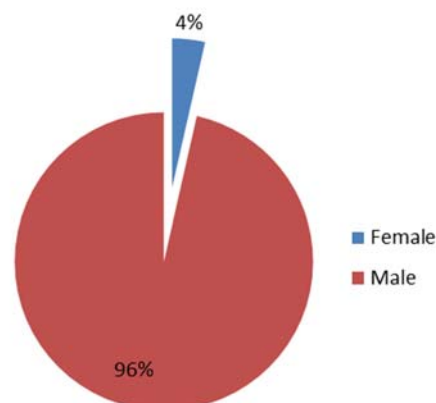
Degree

The three main universities that current financial candidate land surveyors have graduated from are the University of NSW, University of Newcastle, and the University of Southern Queensland. There are also a number of candidates who have graduated from interstate and overseas as listed in the below table.

University of NSW	41
University of Newcastle	36
University of Southern Queensland	34
Otago University	6
Queensland University of Technology	2
Royal Melbourne Institute of Technology	2
University of Tasmania	2
Canberra University	1
Curtin University	1
University of Isfahan	1
Khajeh Nasiroldin Tousi Uni Tech	1
Esfaha University	1
University of Belgrade	1
University of Cape Town	1
High Technical Industrial Institute Dekwaneh	1
University of Nottingham	1
Technical Institute Baddaoui	1
Heilongjian Institute of Technology	1
State University of Land Management	1
Benha University Cairo	1
Oregon State University	1
Anir Kabir University of Technology	1
University College London	1
Not Specified	2
Total	141

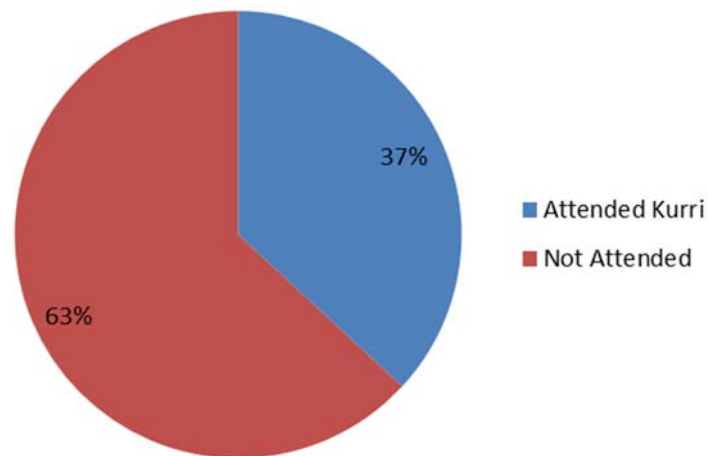
Gender

The majority of financial candidate land surveyors are male. Currently there are 5 female candidate land surveyors.

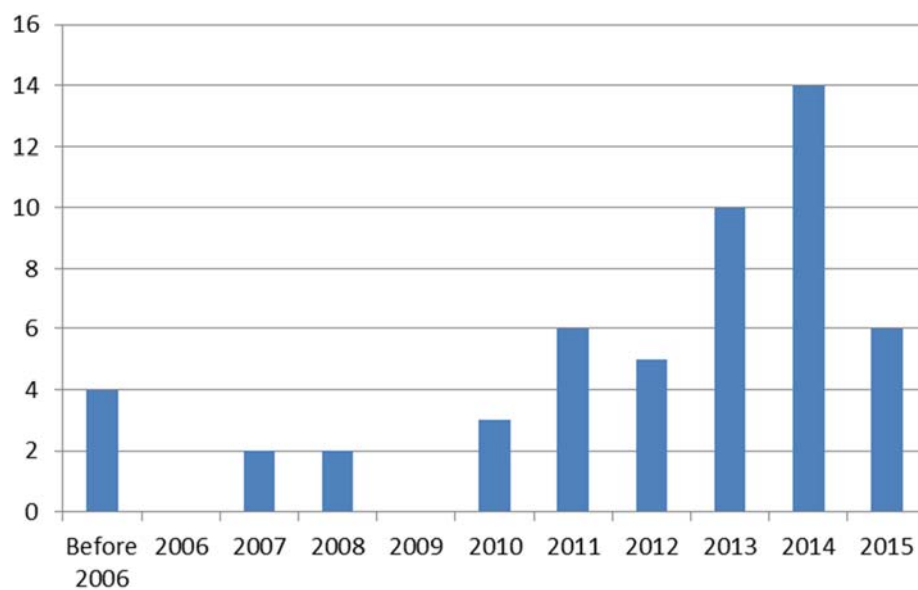


Kurri Kurri Workshop

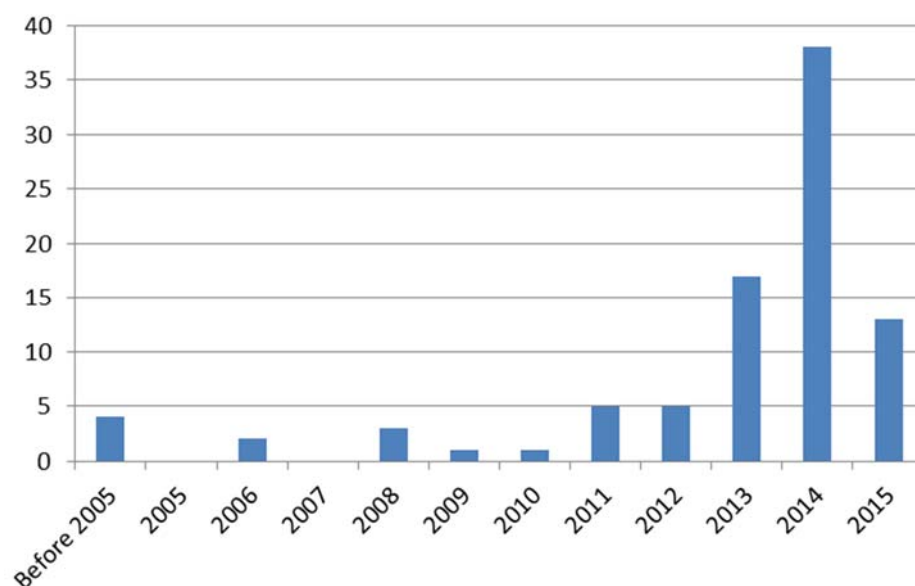
Just over a third of the financial candidate land surveyors have attended the Kurri Kurri Workshop.



Of the financial candidate land surveyors who have attended, the majority of these have attended in the last three years.



Of the financial candidate land surveyors who have not attended, the majority of these have only been enrolled as candidates since 2013.



Sector

The majority of financial candidate land surveyors are employed in the private sector as indicated in the table below:

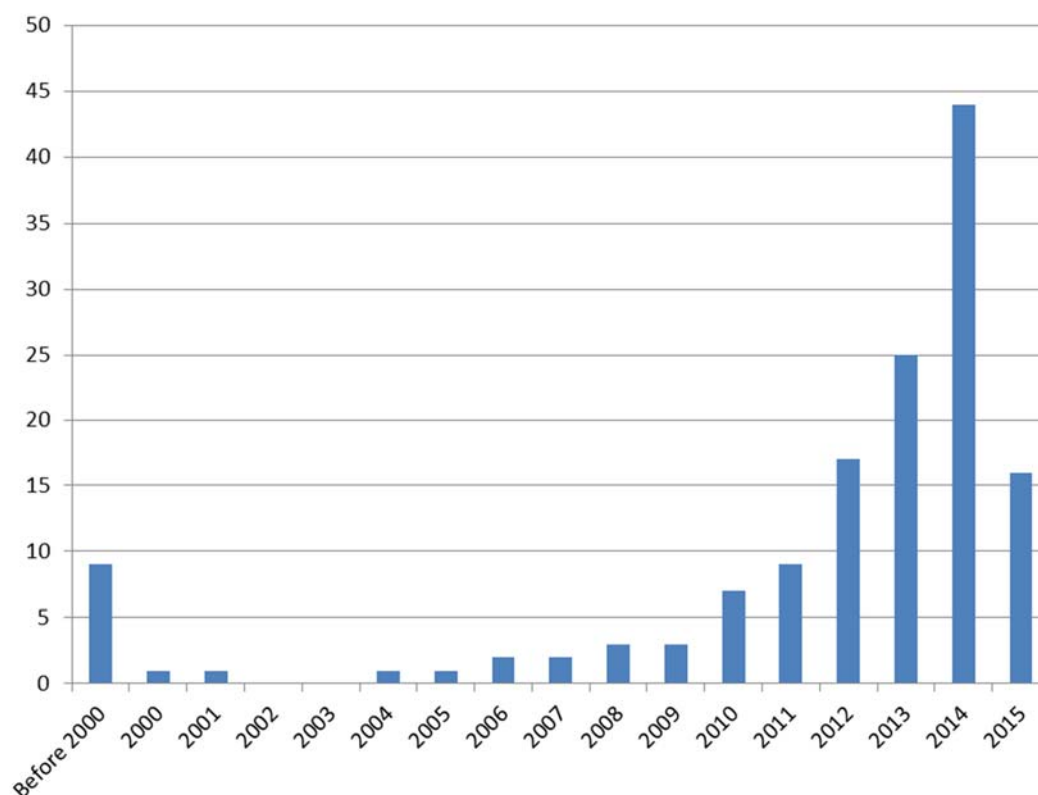
Private	122
NSW Local Govt	5
NSW State Govt	13
ACT Govt	1
Total	141

The number of private companies employing candidate land surveyors is 60. Of these 60 companies, 46 companies have only the 1 candidate land surveyor. There are currently 3 companies that employ 4 candidate land surveyors.

Candidate land surveyors employed in the NSW State Government sector are primarily located at Roads & Maritime Services and Land & Property Information.

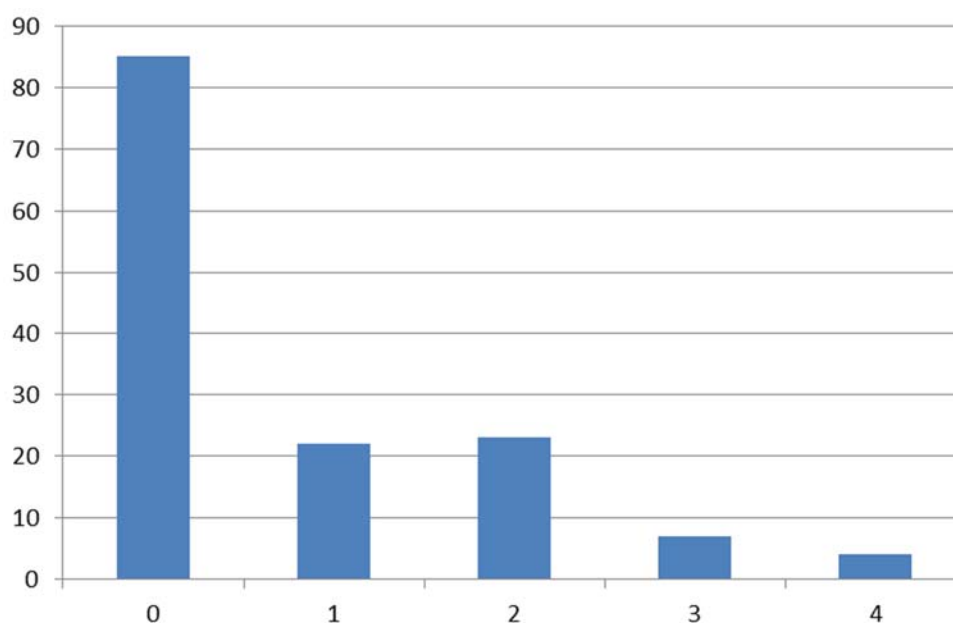
Enrolment

The majority of financial candidate land surveyors have only been recently enrolled, with 16 enrolled in 2015, 44 in 2014, 25 in 2013 and 17 in 2012. There are currently 9 financial candidate land surveyors who have been enrolled since before 2000.

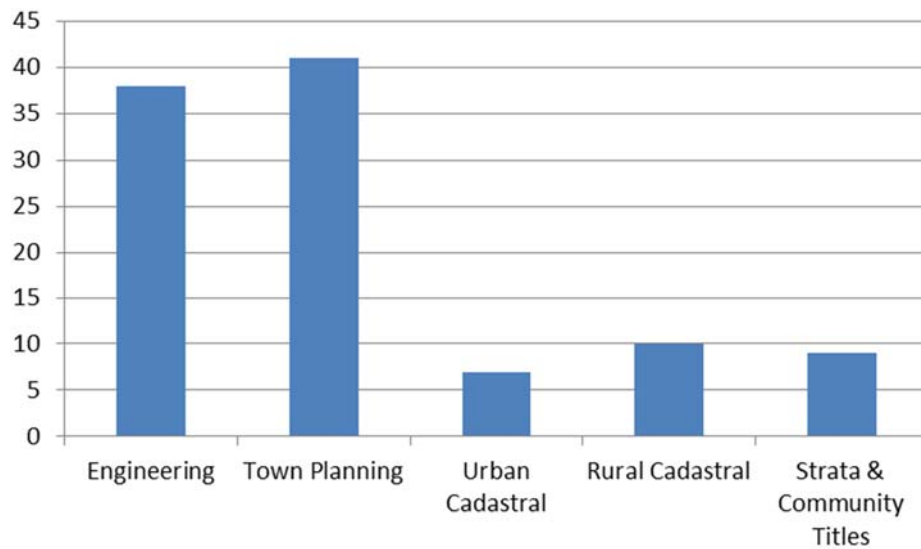


Exams

The majority of financial candidate land surveyors have not passed any of the Board's assessments with only 4 financial candidate land surveyors who have only 1 assessment to go.

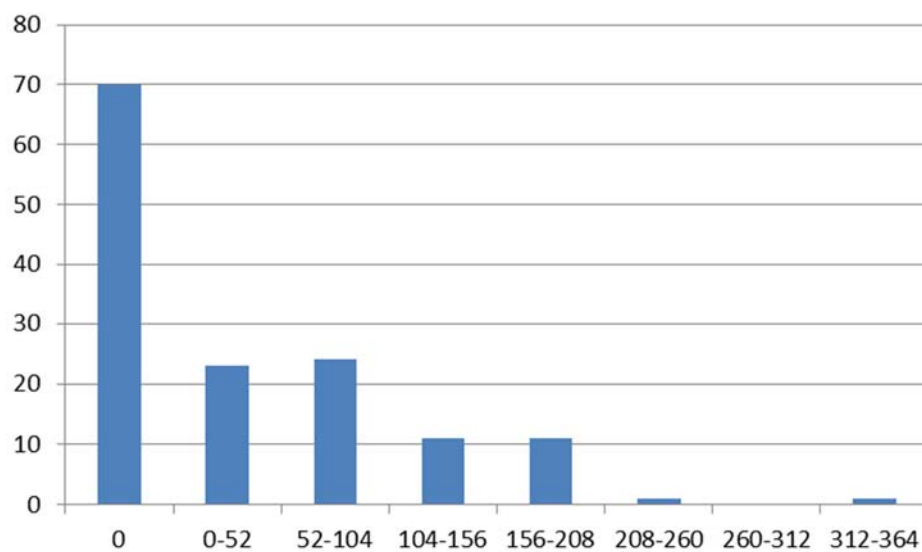


Of the examinations that have been passed, the majority have been in Town Planning and Engineering with 41 passes in Town Planning and 38 in Engineering.



Experience

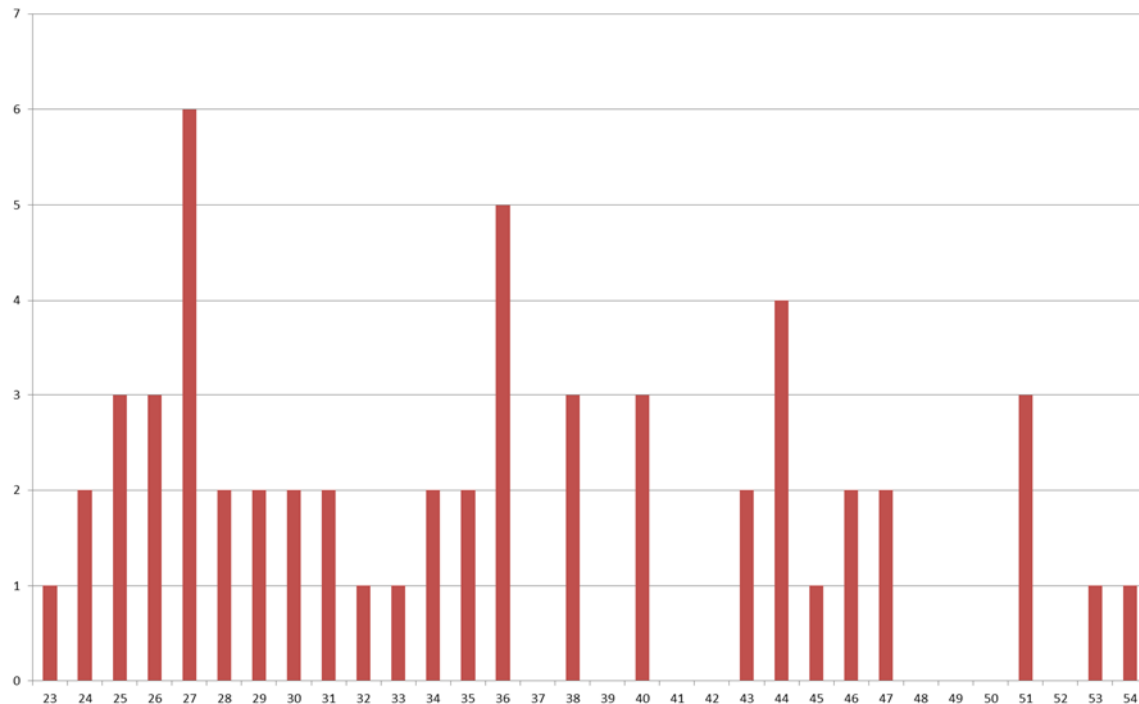
The majority of financial candidate land surveyors have not submitted any practical experience.



Candidate Mining Surveyors

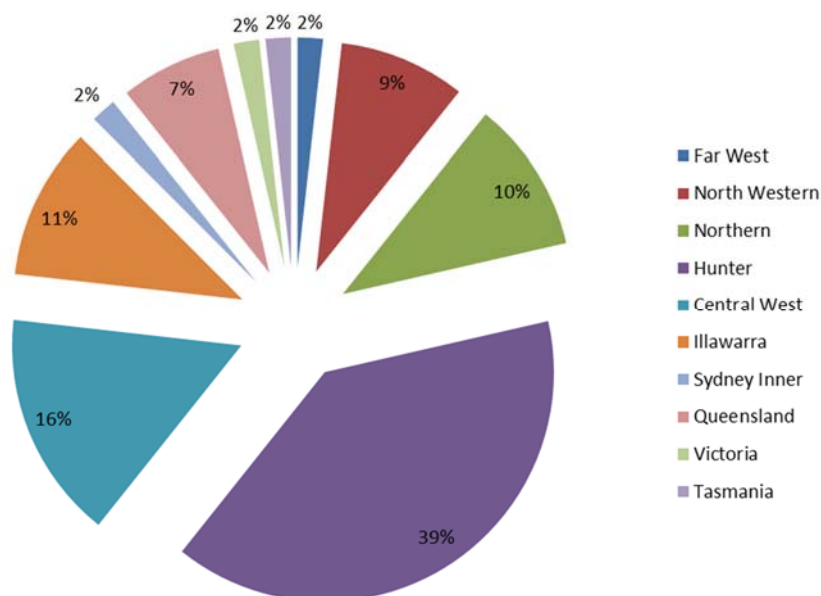
Age

The age range of financial candidate mining surveyors is shown below. The average age of financial candidate mining surveyors on the Board's register is 36 and the age group with the largest number of surveyors is the 27 year age group. The oldest financial candidate surveyor is 54 and the youngest is 23.



Area

The areas which financial candidate mining surveyors on the Board's register are located are shown in the following graph. The largest grouping is the Hunter, with the Central West coming second and the Illawarra are third. There are also 4 candidates from Queensland and 1 candidate from Victoria and 1 from Tasmania.



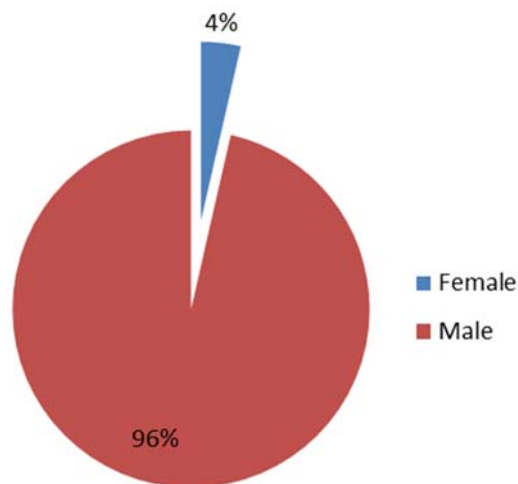
Degree

The majority of candidate mining surveyors have graduated from the University of Southern Queensland, University of Newcastle and TAFE. There are also a number of candidates who have graduated from interstate and overseas as listed in the below table.

University of Southern Queensland	21
University of Newcastle	11
TAFE	8
University of NSW	4
Otago University	1
Queensland University of Technology	1
PNG University Technology	1
Kwame Nkrumah Uni Science & Technology	1
Tshwane University of Technology	1
University of South Australia	1
St Marys University – Philippines	1
University of Dar Es Salaam	1
Technikon Pretoria	1
Institute of Technology Bandang	1
Old Clause 13	2
Total	56

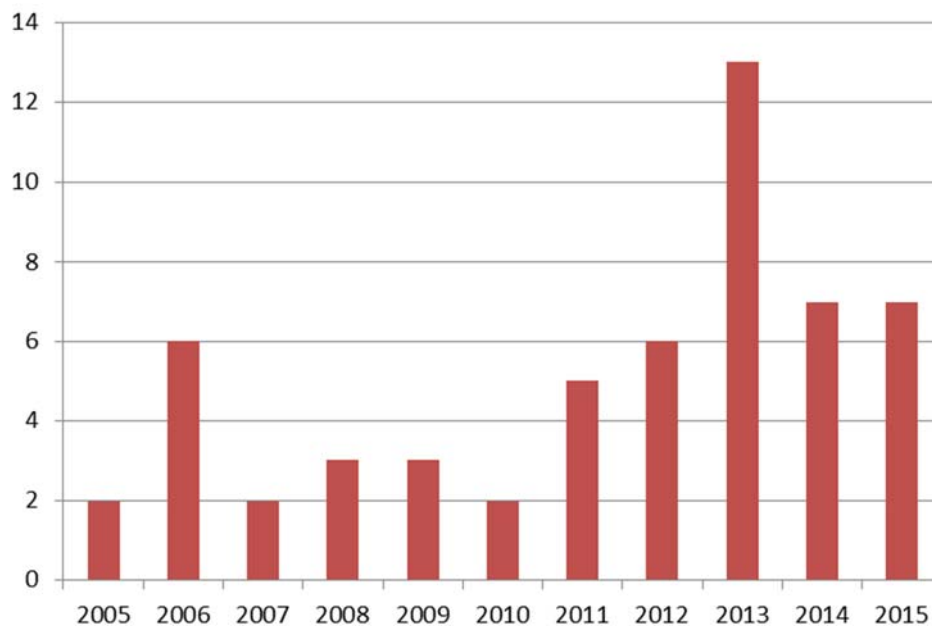
Gender

The majority of financial candidate mining surveyors are male. Currently there are 2 female candidate mining surveyors.



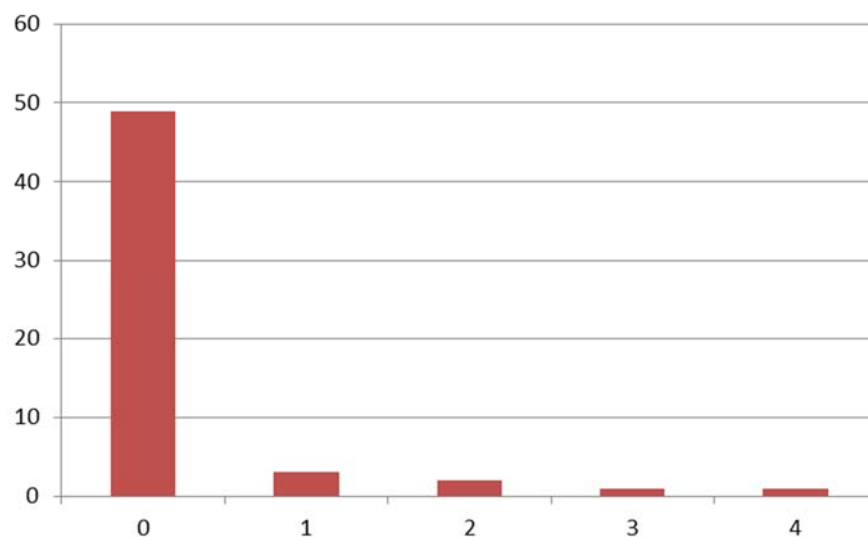
Enrolment

The majority of financial candidate mining surveyors have only been recently enrolled, with 13 enrolled in 2013. There are currently 2 financial candidate mining surveyors who have been enrolled since 2005.

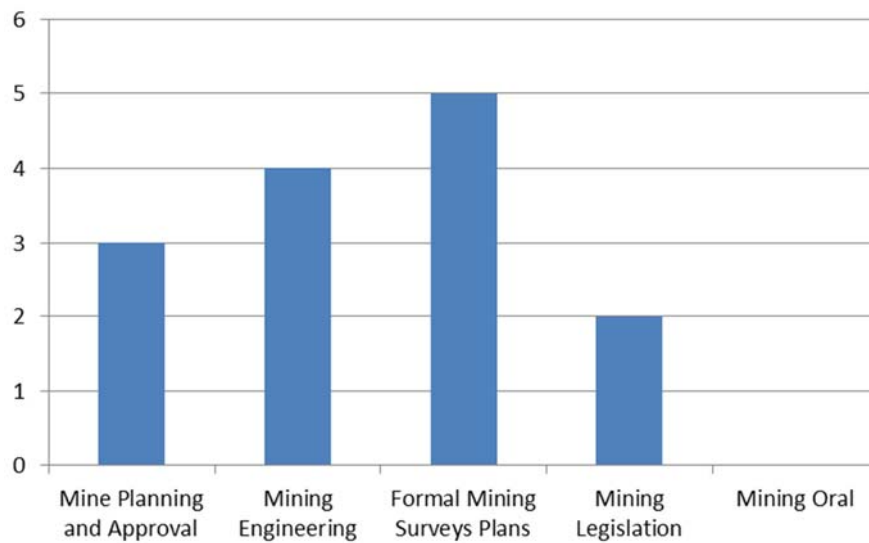


Exams

The majority of financial candidate mining surveyors have not passed any of the Board's assessments with no financial candidate mining surveyors who have only 1 assessment to go.

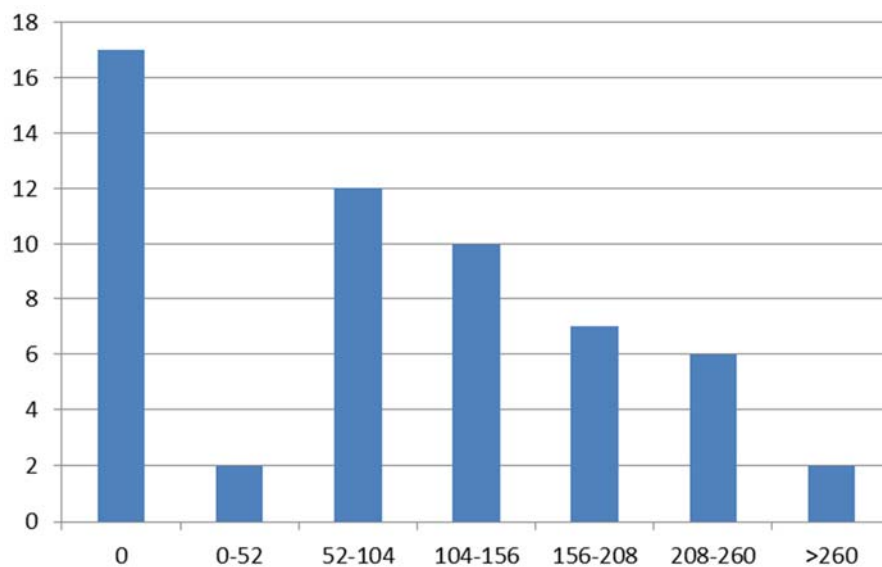


Of the examinations that have been passed, the majority have been in Mine Planning and Approval, Mining Engineering, Formal Mining Survey Plans and Mining Legislation.



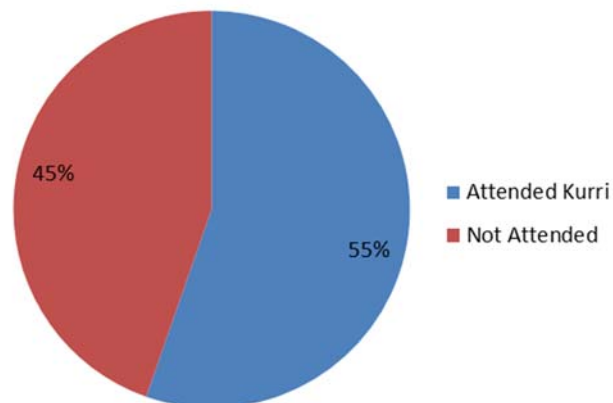
Experience

The majority of financial candidate mining surveyors have not submitted any practical experience or greater than 52 weeks of practical experience.

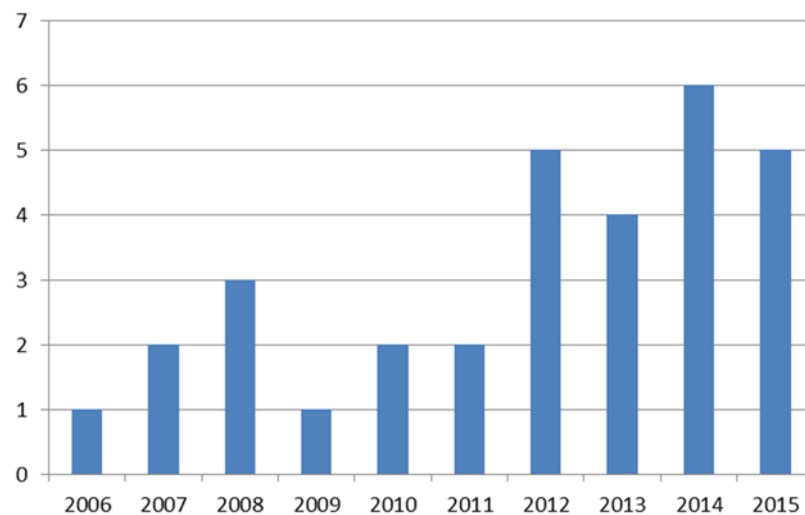


Kurri Kurri Workshop

Just over half of the financial candidate mining surveyors have attended the Kurri Kurri Workshop.



Of the financial candidate mining surveyors who have attended, the majority of these have attended in the last four years.



Of the financial candidate mining surveyors who have not attended, the majority of these have only been enrolled as candidates since 2013.

