



Board of Surveying and Spatial Information

30 June 2014

Statistical Review

2013 – 2014

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Contents

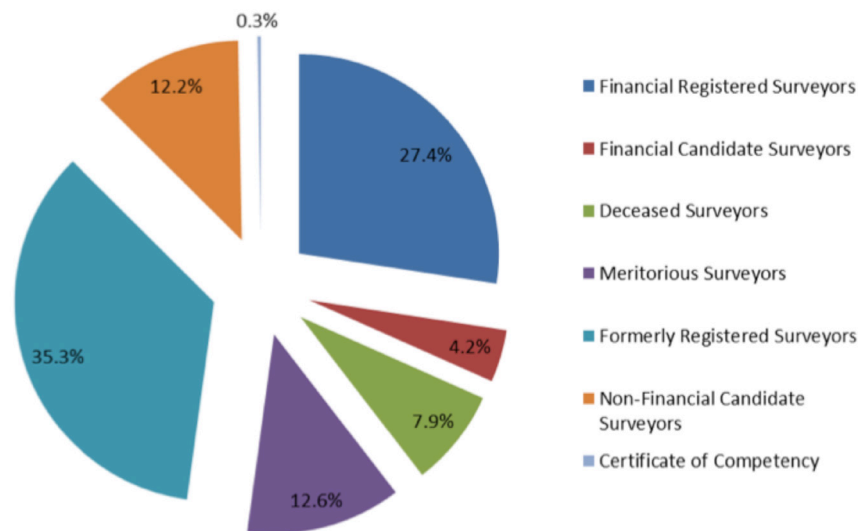
Table of Contents	3
Introduction	4
BOSSI Register	4
Financial Registered Surveyors	5
Registered Land Surveyors	6
Age	6
Area	6
Degree	7
Gender	7
Sector	8
Registration	8
Land Surveying Firms	9
Registered Mining Surveyors	10
Age	10
Area	11
Degree	11
Gender	12
Registration	12
Financial Candidate Surveyors	13
Candidate Land Surveyors	14
Age	14
Area	14
Degree	14
Gender	15
Kurri Kurri Workshop	15
Sector	16
Enrolment	16
Exams	17
Experience	17
Candidate Mining Surveyors	18
Age	18
Area	18
Degree	19
Gender	19
Enrolment	19
Exams	20
Experience	20
Kurri Kurri Workshop	21

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

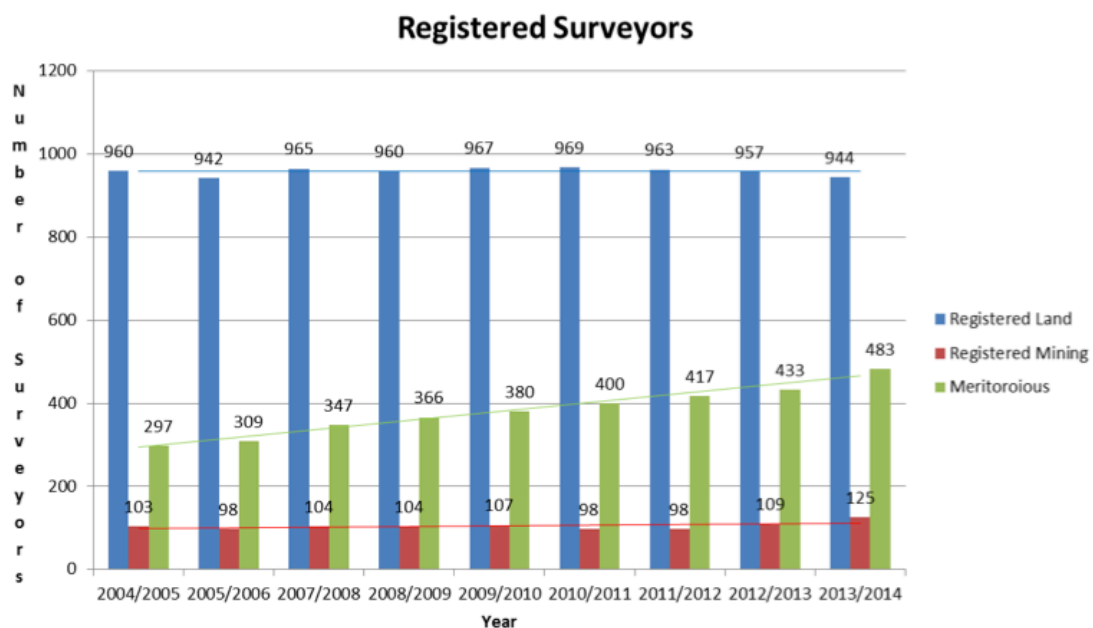
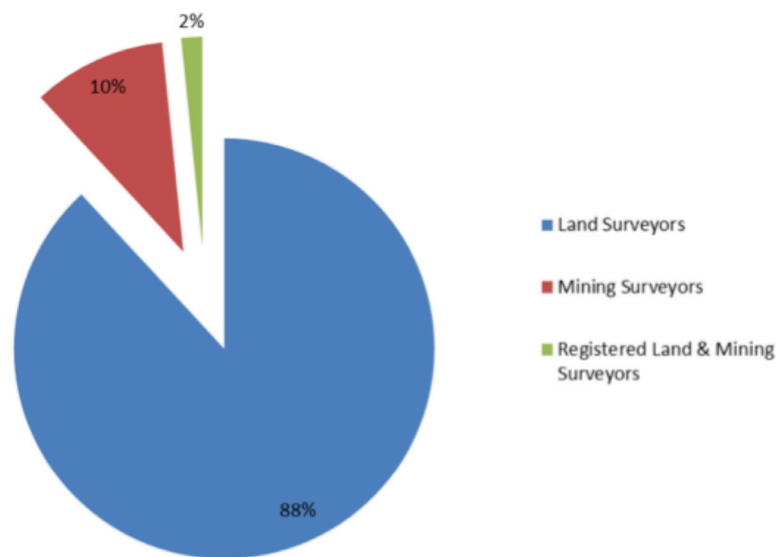


Financial Registered Surveyors

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

Registered Land Surveyors	927
Registered Mining Surveyors	108
Registered Land & Mining Surveyors	17
<i>Total</i>	<i>1052</i>

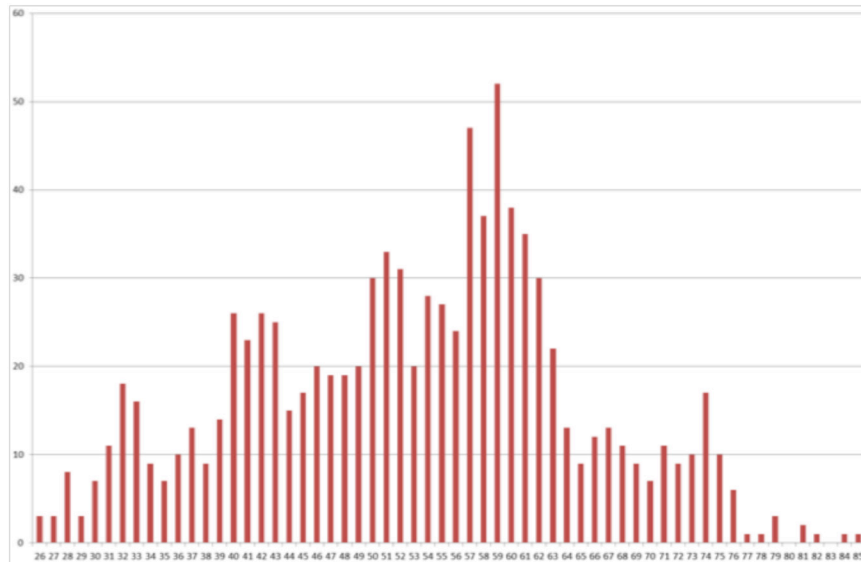
The trend in registered surveyor numbers since 2004 is show below. This trend shows a slight dip in registered land surveyors and a slight increase for registered mining surveyors in 2013/2014 but overall the general trend is quite flat indicating that enough candidate surveyors are becoming registered each year to counter the number of registered surveyors who are retiring or leaving the profession.



Registered Land Surveyors

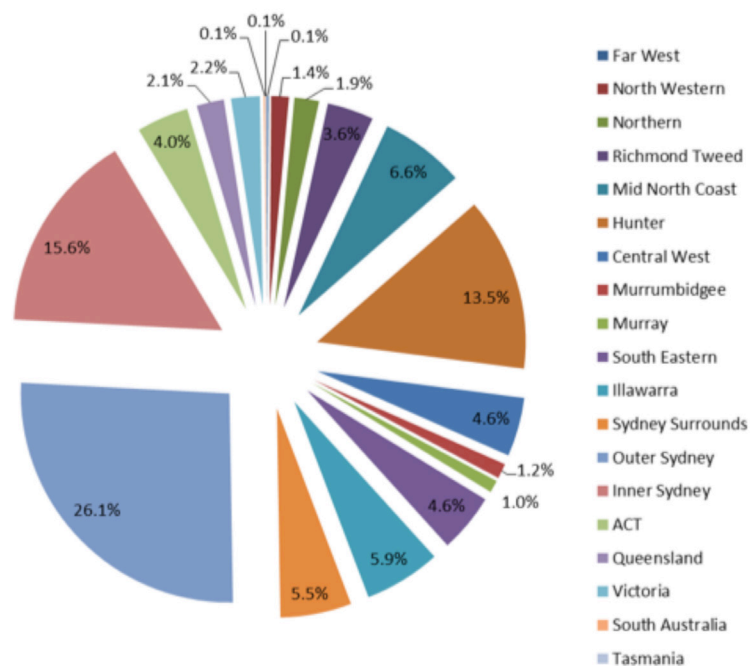
Age

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 59 year age group. The oldest financial registered surveyor is 85 and the youngest is 26.



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 and Tasmania.



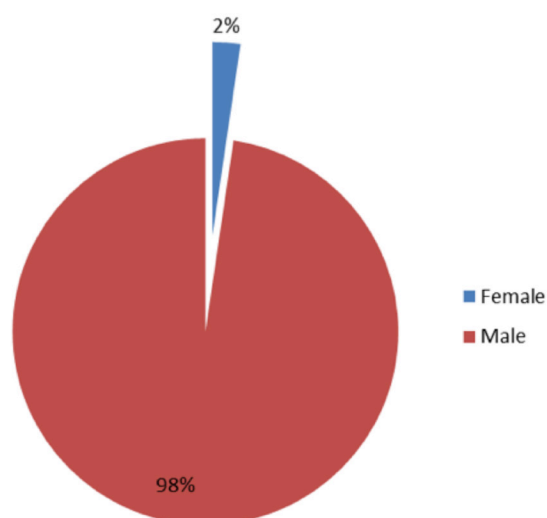
Degree

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	181
Articles	72
Queensland University of Technology	22
University of Southern Queensland	25
Western Australian Institute of Technology	22
Royal Melbourne Institute of Technology	24
Otago University	15
University of Tasmania	9
University of Melbourne	8
University of South Australia	6
Curtin University	5
Canberra University	5
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
University of Architecture, Civil Engineering and Geodesy, Sofia	1
AGH University of Science and Technology Poland	1
Wuhan Technical University	1
University of Natal	1
Not Specified	9
Total	944

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:

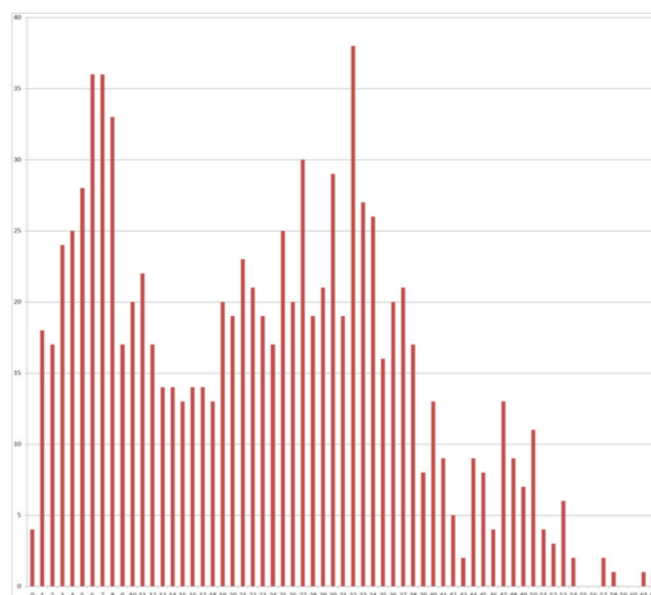
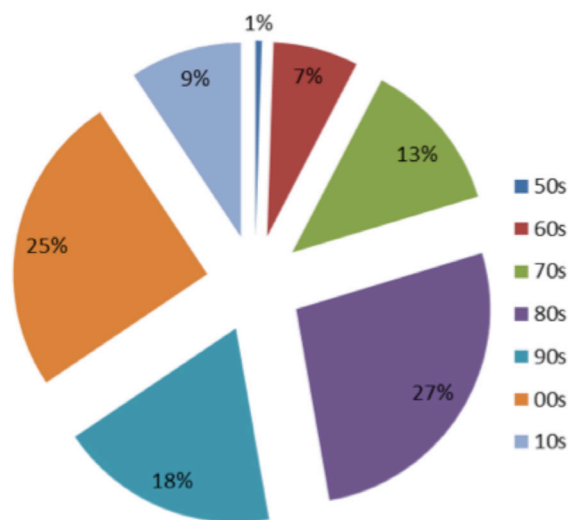
Private	822
New South Wales Local Government	25
New South Wales State Government	92
ACT Government	1
Federal Government	1
University	1
<i>Total</i>	<i>944</i>

The number of private companies employing registered land surveyors is 406. Of these 406 companies, 269 companies have only the 1 registered land surveyor. There are currently 15 companies that employ more than 5 registered land surveyors.

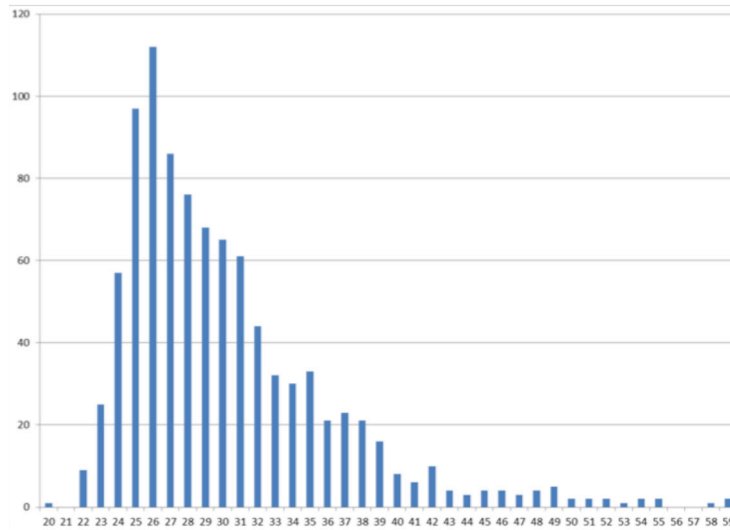
Registered land surveyors employed in the NSW State Government sector are primarily located at Roads & Maritime Services, Land & Property Information, and RailCorp.

Registration

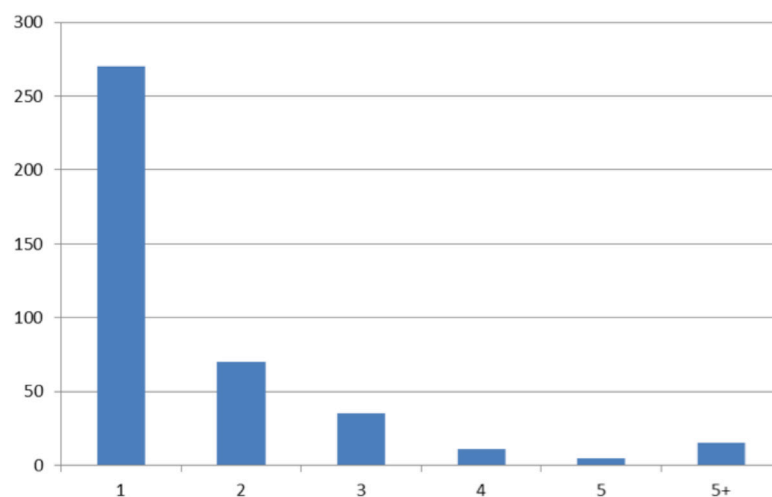
The initial registration of the current financial registered land surveyors spans from the 50s to the present date. The biggest group are surveyors who gained registration in the 80s followed by the 00s and the 90s.



The following graph shows the length of time current financial registered land surveyors have been registered. The longest span of registration is 62 years, with the average being 23 years and the graph exhibits two peaks around 5 years and 32 years.

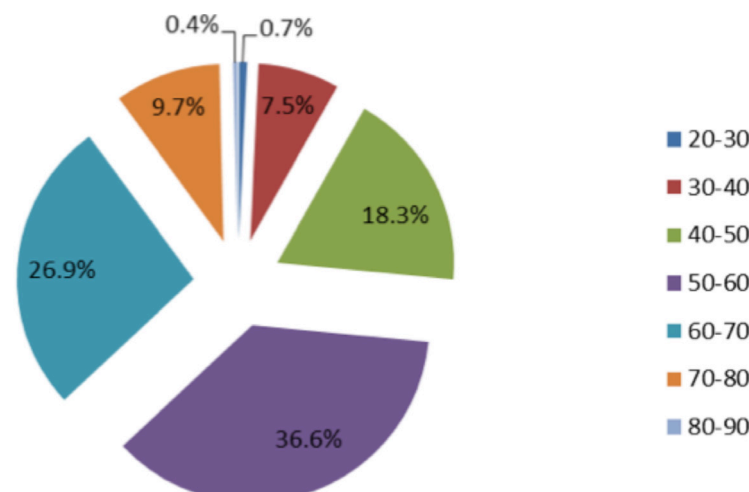


The age of land surveyors when they have gained registration is displayed below. Most surveyors gained their initial registration in their 20s, with the youngest being 20 and the oldest being 59. The average age is 30 with the largest age group being 26 years.

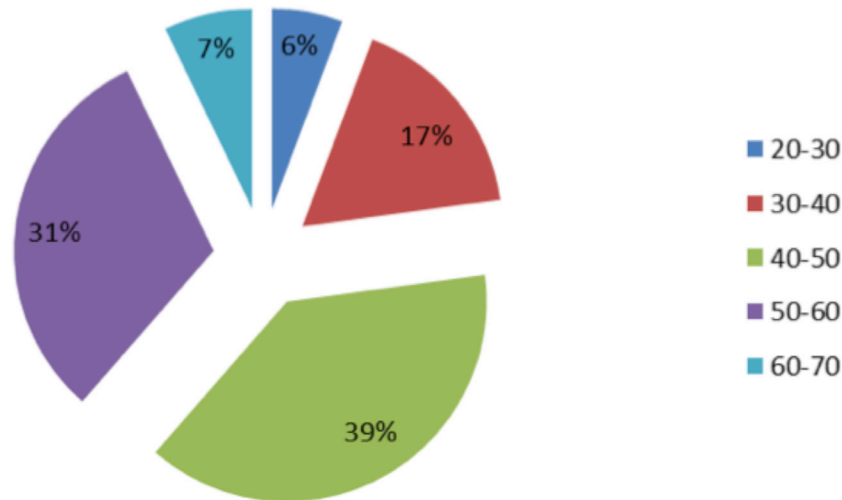


Land Surveying Firms

There are currently 406 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.

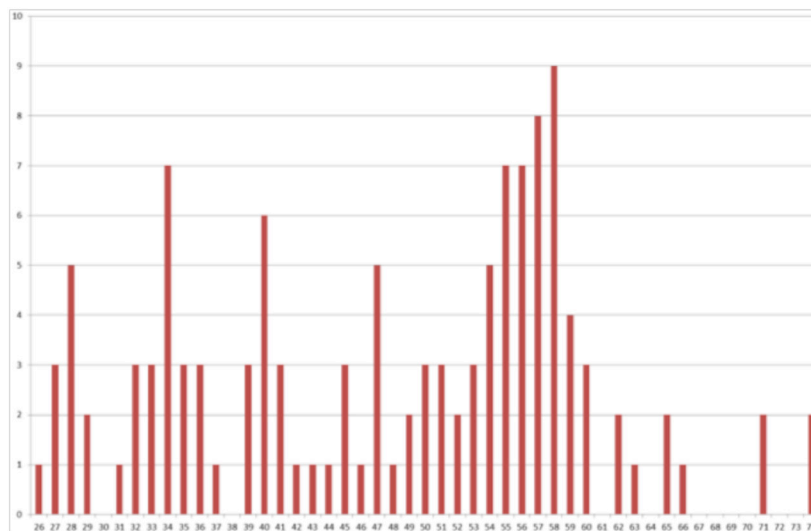


Of the firms who employ two Registered Land Surveyors, the majority of these surveyors are in the 40-50 age group and the 50-60 age group.

Registered Mining Surveyors

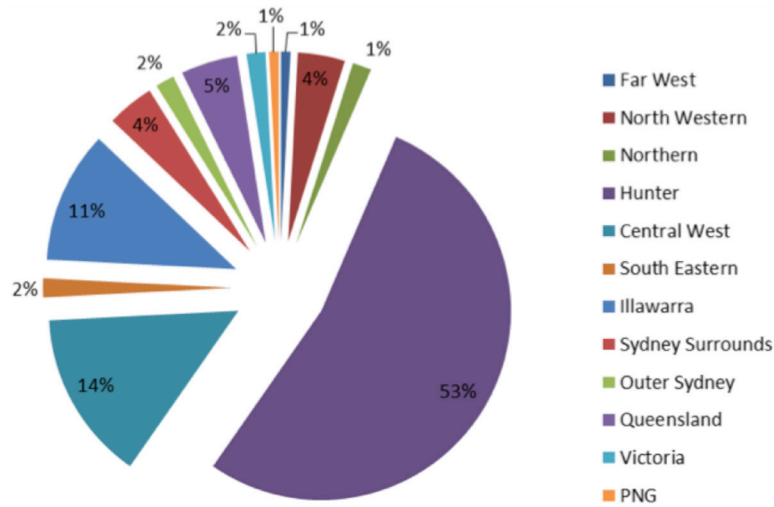
Age

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 58 year age group. The oldest financial registered mining surveyor is 74 and the youngest is 26.



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, and 1 surveyor based in Papua New Guinea.



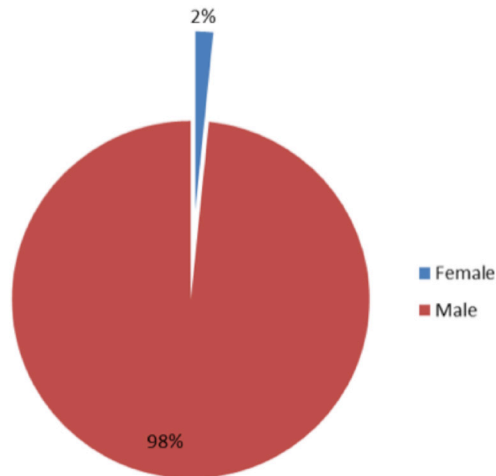
Degree

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	59
University of Southern Queensland	15
TAFE	14
University of Newcastle	13
University of NSW	9
Royal Melbourne Institute of Technology	24
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	6
<i>Total</i>	124

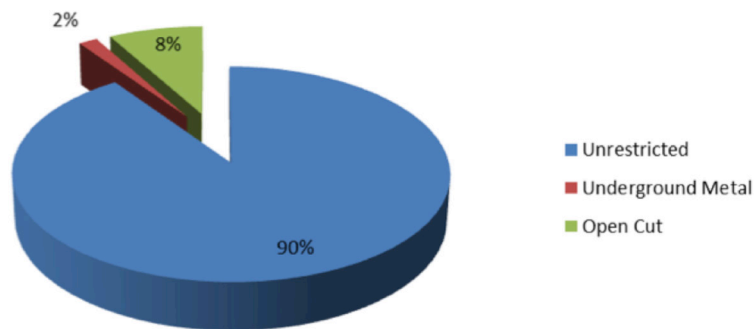
Gender

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

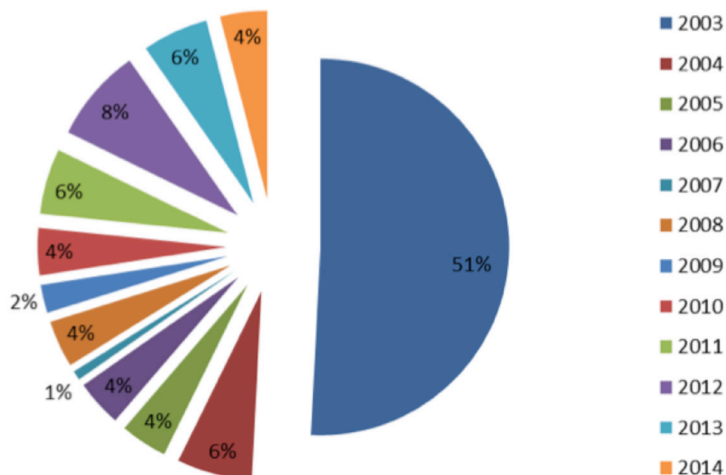


Registration

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 2 surveyors having an underground metalliferous registration and 10 having an open cut registration.



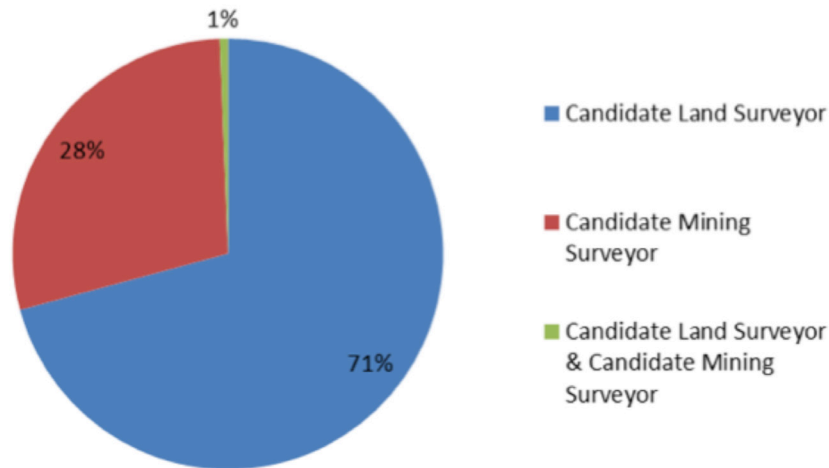
As mining surveying registration under the Surveying and Spatial Information Act 2002 was only introduced when the Act commenced, the initial date of registration for financially registered mining surveyors in the Board's register spans from 2003 to present and the majority of these being in 2003. Since 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. Currently 5 surveyors have been registered in 2014.



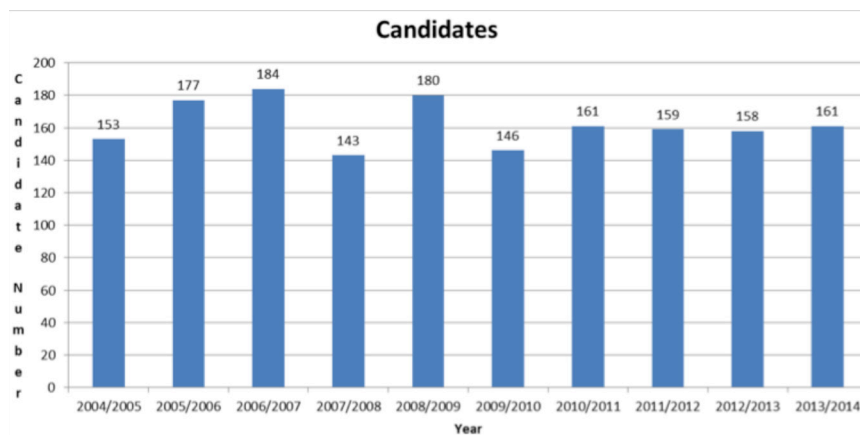
Financial Candidate Surveyors

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:

Candidate Land Surveyors	114
Candidate Mining Surveyors	46
Candidate Land & Mining Surveyors	1
<i>Total</i>	<i>161</i>



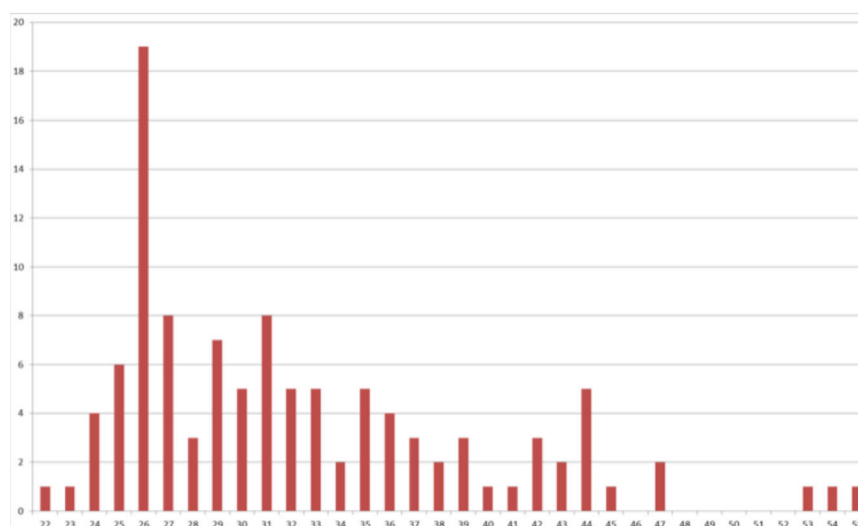
The trend in candidate surveyor numbers since 2004 is shown below. The trend has been up and down with a minimum of 143 in 2007/2008 to a maximum of 184 in 2006/2007.



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 26 year age group. The oldest financial candidate surveyor is 55 and the youngest is 22.



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 3 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.

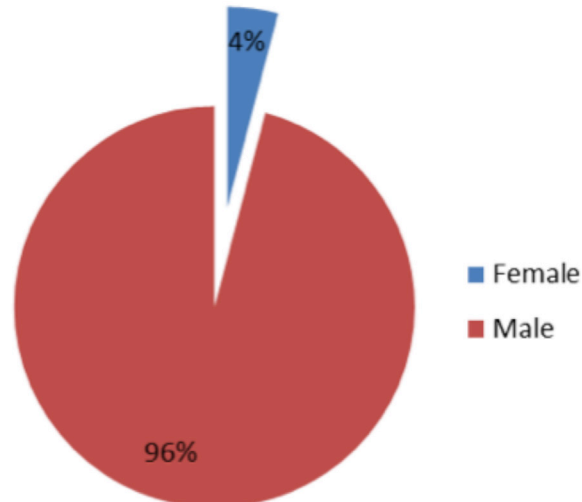
University of NSW	34
University of Newcastle	28
Univeristy of Southern Queensland	20
Otago University	6
Queensland University of Technology	2
Royal Melbourne Institute of Technology	2
Canberra University	1
Curtin University	1
Khajeh Nasiroldin Tousi University of Technology	1
University of Plymouth	1
Technical Licence	1
Dublin Institute of Technology	1
Esfaha University	1
Sabaragamuwa University	1
University College London	1
Kathmandu University	1
Institute of Surveying and Mapping Sri Lanka	1
State University of Land Management	1
University of Phillippines	1
Not Specified	2
Total	109

Gender

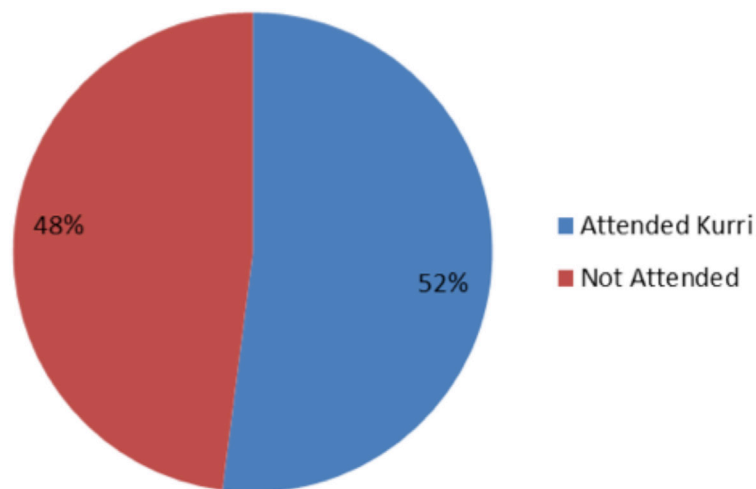
The majority of financial candidate land surveyors are male. Currently there are 4 female candidate land surveyors.

Kurri Kurri Workshop

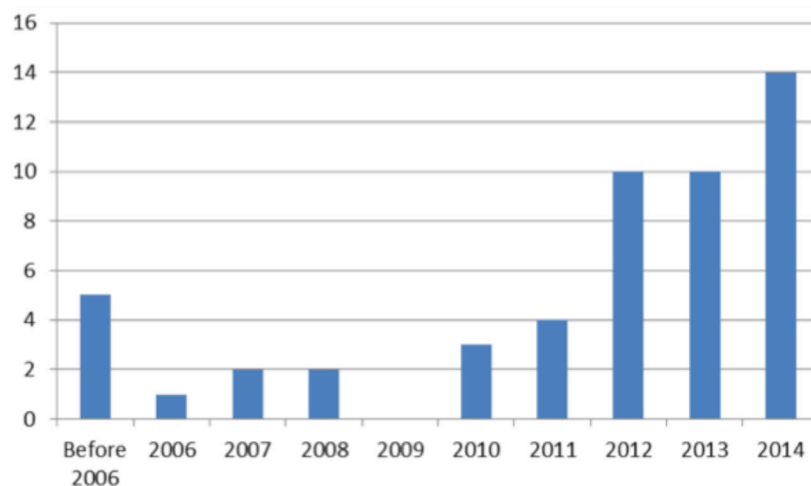
Just over half of the financial candidate land surveyors have attended the Kurri Kurri Workshop.



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

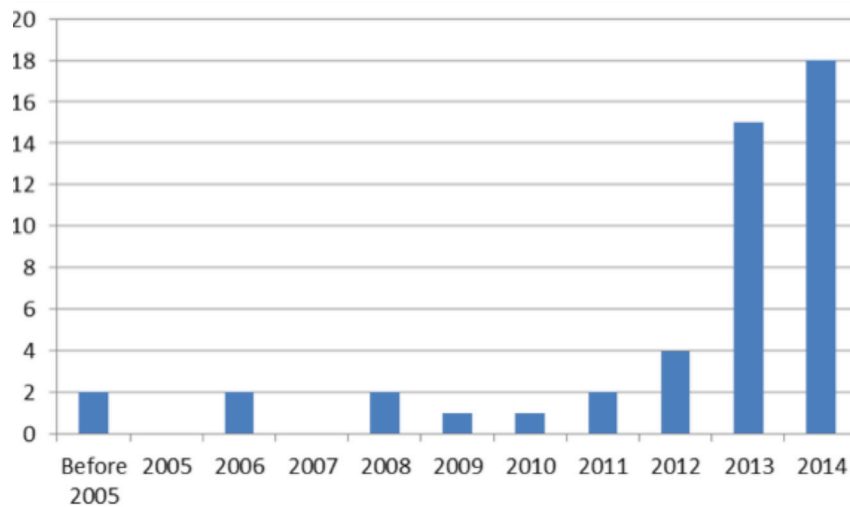


Of the financial candidate land surveyors who have not attended, the majority of these have only been enrolled as candidates since 2013.



Sector

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



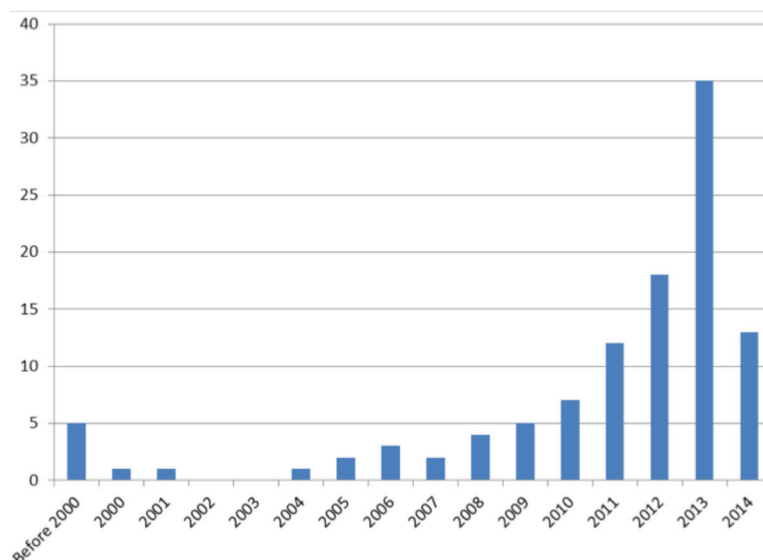
Private	97
New South Wales Local Government	2
New South Wales State Government	10
<i>Total</i>	<i>109</i>

The number of private companies employing candidate land surveyors is 52. Of these 52 companies, 35 companies have only the 1 candidate land surveyor. There are currently 2 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.

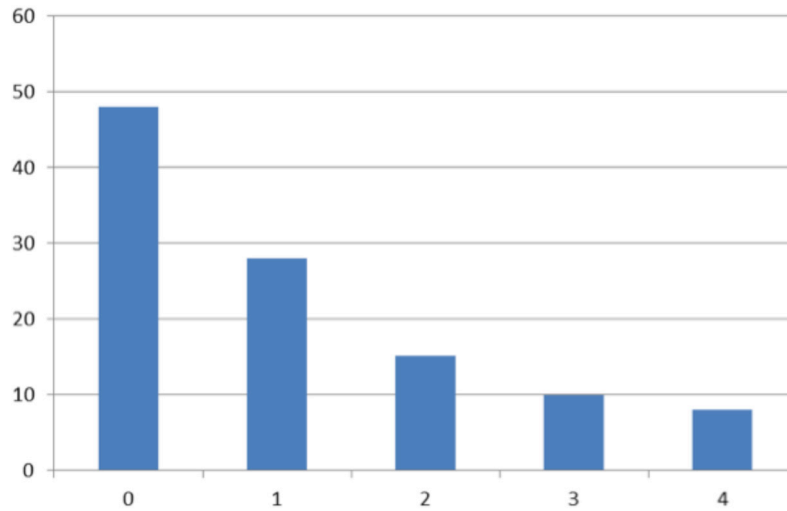
Enrolment

The majority of financial candidate land surveyors have only been recently enrolled, with 13 enrolled in 2014, 35 in 2013, 18 in 2012 and 12 in 2011. There are currently 5 financial candidate land surveyors who have been enrolled since before 2000.

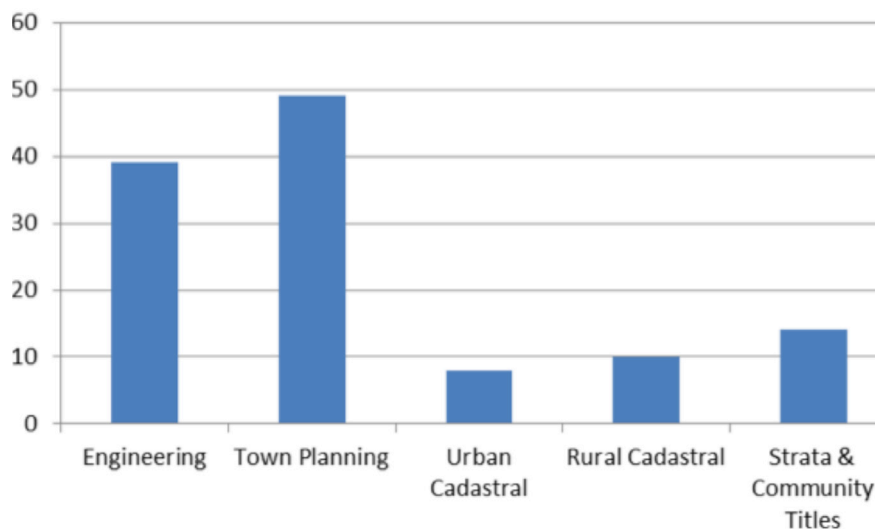


Exams

The majority of financial candidate land surveyors have not passed any of the Board's assessments with only 8 financial candidate land surveyors who have only 1 assessment to go.

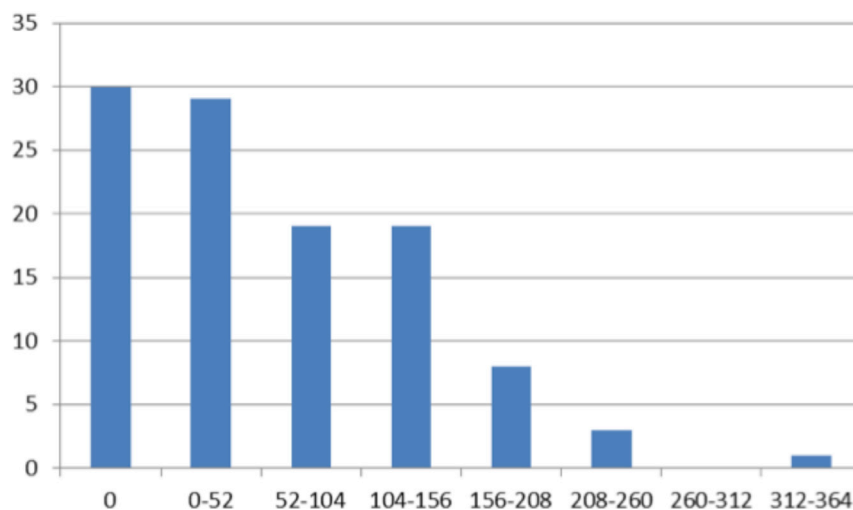


Of the examinations that have been passed, the majority have been in Town Planning and Engineering with 49 passes in Town Planning and 39 in Engineering.



Experience

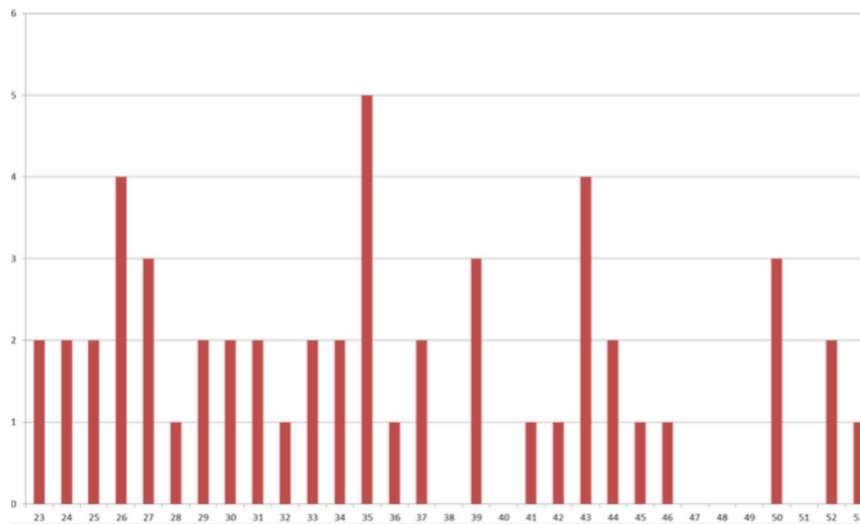
The majority of financial candidate land surveyors have not submitted any practical experience or less than 52 weeks of practical experience.



Candidate Mining Surveyors

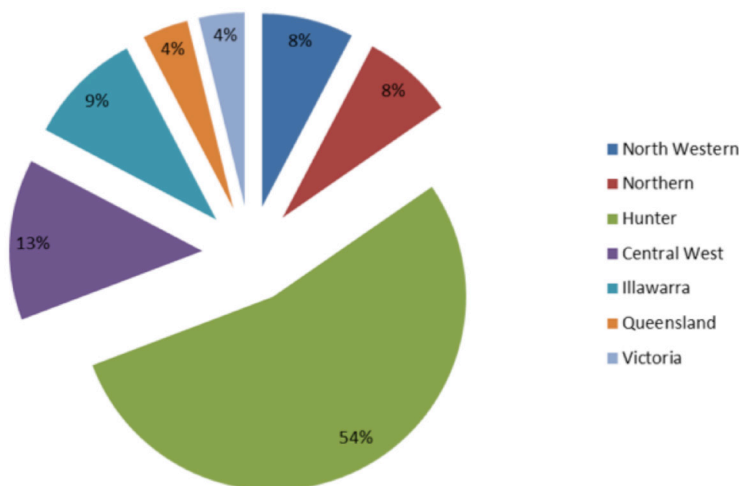
Age

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 35 year age group. The oldest financial candidate surveyor is 53 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 2 candidates from Queensland and 2 candidates from Victoria.



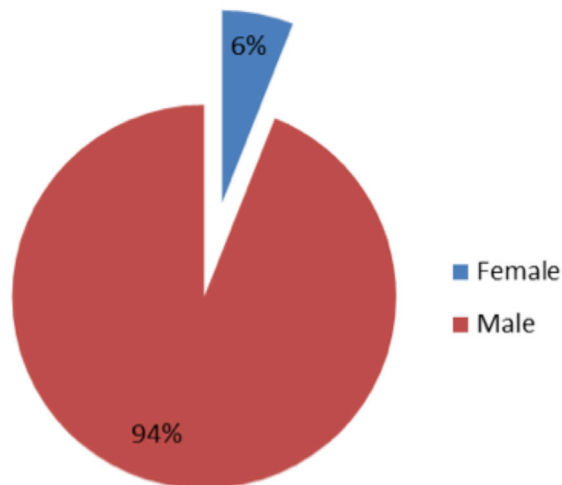
Degree

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.

Univeristy of Southern Queensland	16
University of Newcastle	13
TAFE	10
University of New South Wales	2
Otago University	1
Queensland University of Technology	1
Royal Melbourne Institute of Technology	1
Kwame Nkrumah Uni Science and Technology	1
Tshwane University of Technology	1
University of South Australia	1
Mining Surveyors Certificate of Competency	1
University of Dar Es Salaam	1
Copperbelt University Zambia	1
Not Specified	2
<i>Total</i>	<i>52</i>

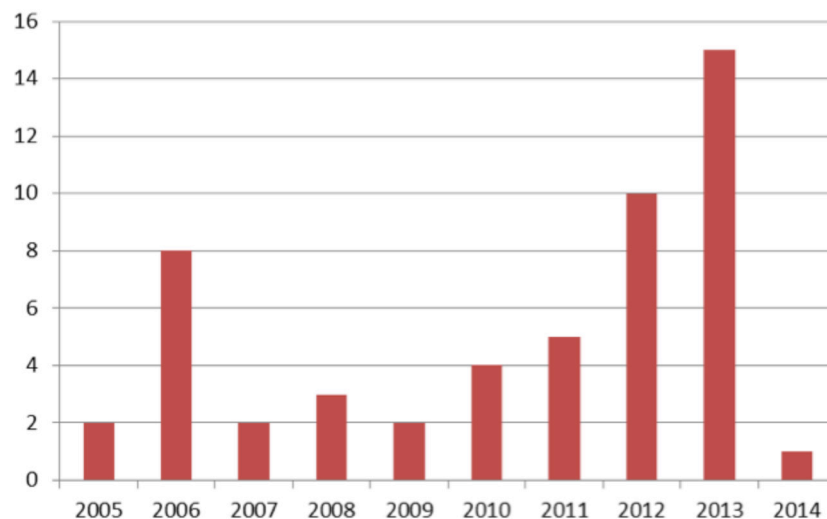
Gender

The majority of financial candidate mining surveyors are male. Currently there are 3 female candidate mining surveyors.



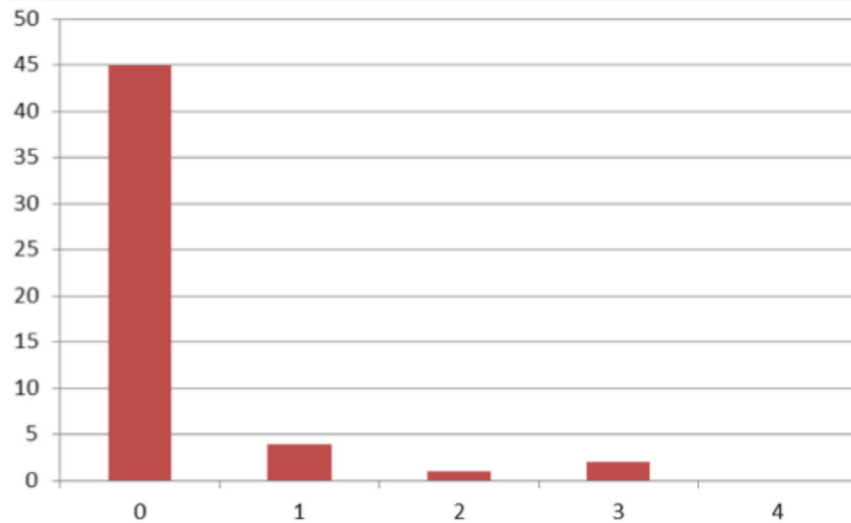
Enrolment

The majority of financial candidate mining surveyors have only been recently enrolled, with 15 enrolled in 2013, and 10 in 2012. There are currently 2 financial candidate mining surveyors who have been enrolled since 2005.

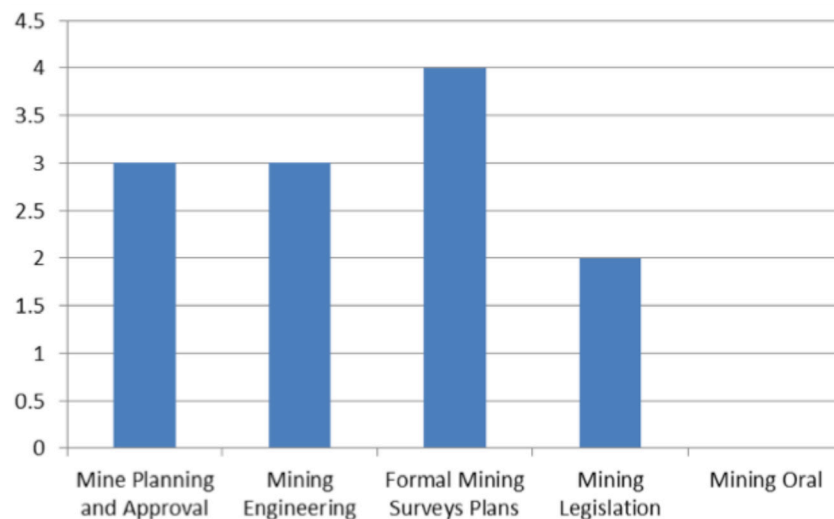


Exams

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.

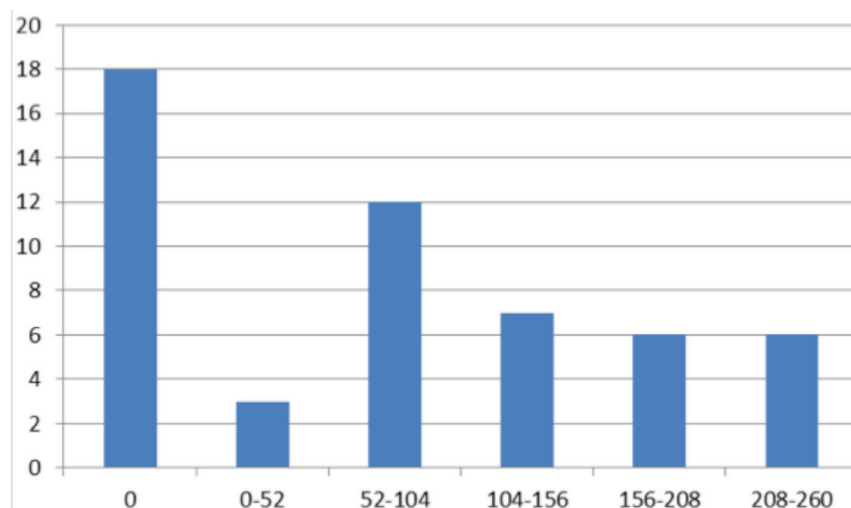


Of the examinations that have been passed, the majority have been in Mine Planning and Approval, Mining Engineering, Formal Mining Survey Plans and Mining Legislation.



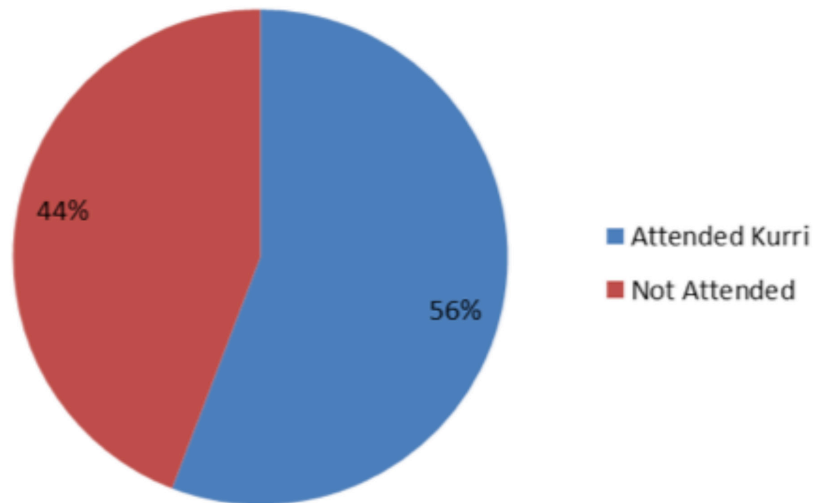
Experience

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

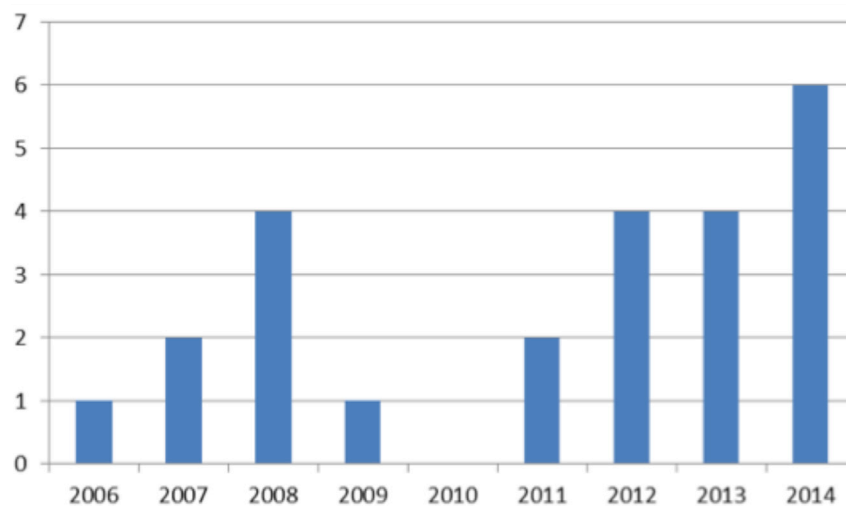


Kurri Kurri Workshop

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 three years.



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

