



Board of Surveying
& Spatial Information

BOSSI Statistical Review 2019-2020



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1. 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 of Surveyor contains details for all registered 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 1048 financial registered surveyors and 255 financial candidate surveyors.

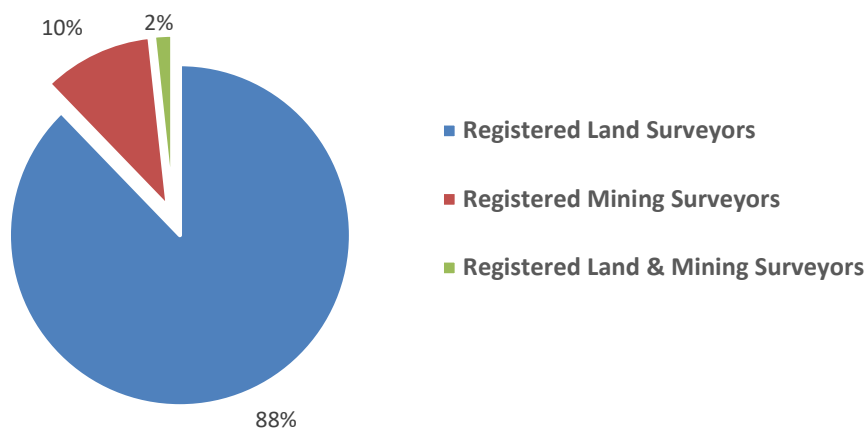
Note: During the transition of the BOSSI Register to the Government Licensing System in March 2020 the data contained in the database was reviewed and cleansed. Duplicates, incomplete and incorrect records were updated or removed. Historical data in the Trends section of this report has not been recalculated.

2. Financial Registered Surveyors

Registered Surveyors

BOSSI registers surveyors in two disciplines being land surveying and mining surveying. Current number of financial registered surveyors as of 30 June 2020 is as follows:

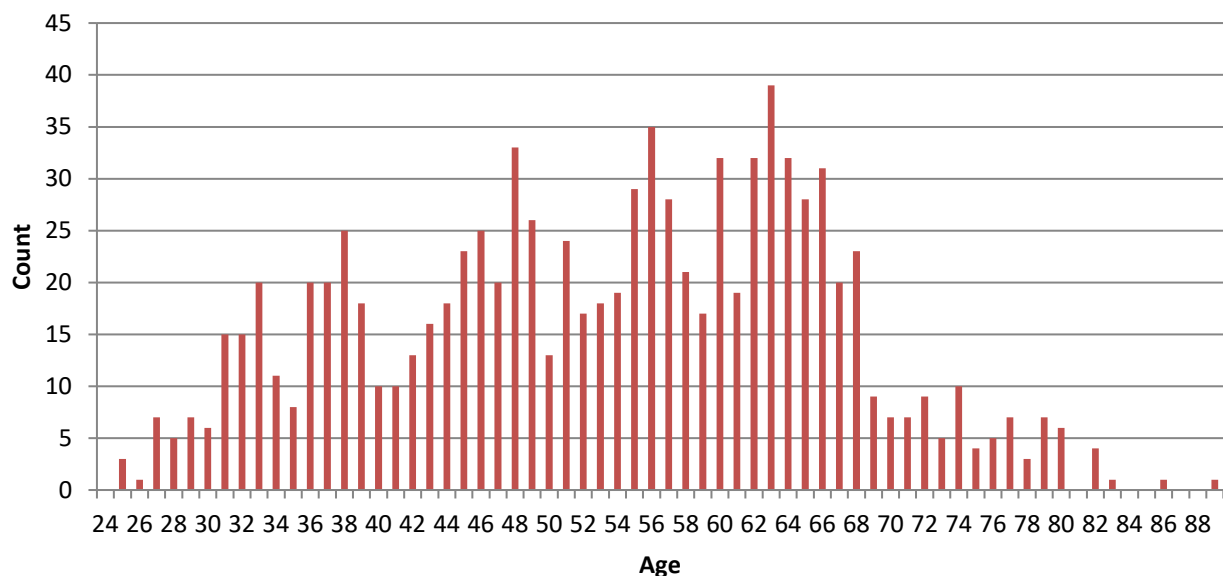
Registered Land Surveyors	920
Registered Mining Surveyors	110
Registered Land & Mining Surveyors	18
Total	1048



Registered Land Surveyors

Age Profile

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 63-year age group. The oldest financial registered surveyor is 89 and the youngest is 25.



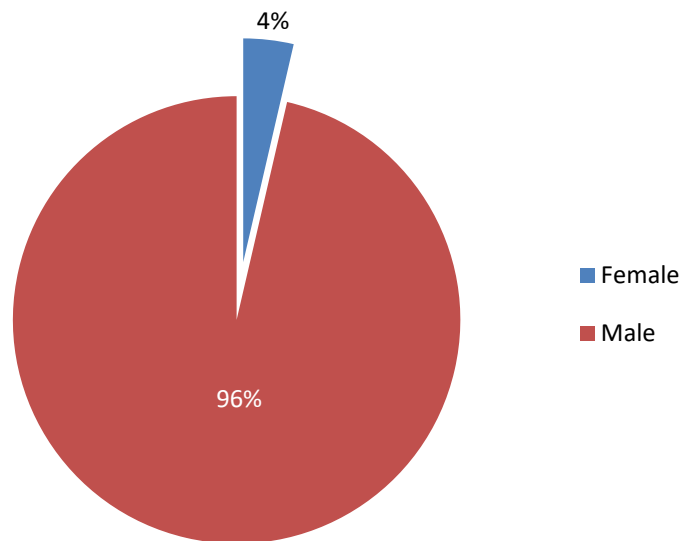
Recognised Qualifications

The names of the institutions where current financial registered land surveyors have gained their recognised qualifications are listed in the table below:

UNIVERSITY OF NEW SOUTH WALES	455
UNIVERSITY OF NEWCASTLE	207
UNIVERSITY OF SOUTHERN QUEENSLAND	50
INSPECTION	34
QUEENSLAND UNIVERSITY OF TECHNOLOGY	33
ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY	17
WA INSTITUTE OF TECHNOLOGY	16
UNIVERSITY OF TASMANIA	10
OTAGO UNIVERSITY NZ	14
CURTIN UNIVERSITY	7
UNIVERSITY OF MELBOURNE	5
WESTERN AUSTRALIAN INST TECHNOLOGY	5
UNIVERSITY OF SOUTH AUSTRALIA	4
UNIVERSITY OF WARSAW	2
CANBERRA UNIVERSITY	2
UNIVERSITY OF CAPE TOWN	2
CANBERRA COLLEGE OF ADVANCE EDUCATION	2
RUSSIA	2
LA PLATA UNIVERSITY	1
NORTHERN TERRITORY QUALIFICATIONS	1
SOUTH AUSTRALIA INSTITUTE OF TECHNOLOGY	1
WUHAN TECHNICAL UNIVERSITY	1
SURVEYOR'S CERTIFICATE OF COMPETENCY	1
BOCHUM TERTIARY COLLEGE	1
UNIVERSITY OF CALGARY	1
UNIVERSITY OF QUEENSLAND	1
UNIVERSITY OF ZIMBABWE	1
AGH UNIVERSITY OF SCIENCE & TECHNOLOGY	1
UNIVERSITY OF BELGRADE	1
UNIVERSITY OF ISFAHAN	1
MELBOURNE UNIVERSITY	1
UNIVERSITY OF NOTTINGHAM	1
OREGON STATE UNIVERSITY	1
AMIR KABIR UNIVERSITY OF TECHNOLOGY	1
WROCLAW UNIVERSITY	1
Not Specified	54
Total	938

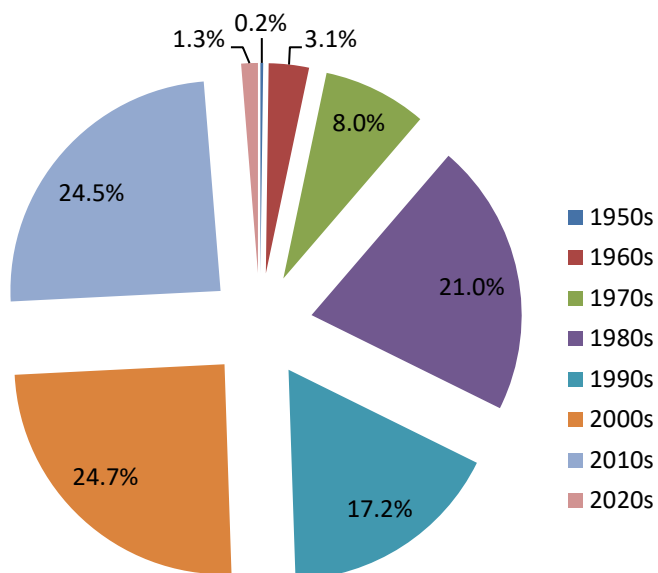
Gender Diversity

The gender breakdown of financial registered land surveyors is currently 904 males and 34 females.

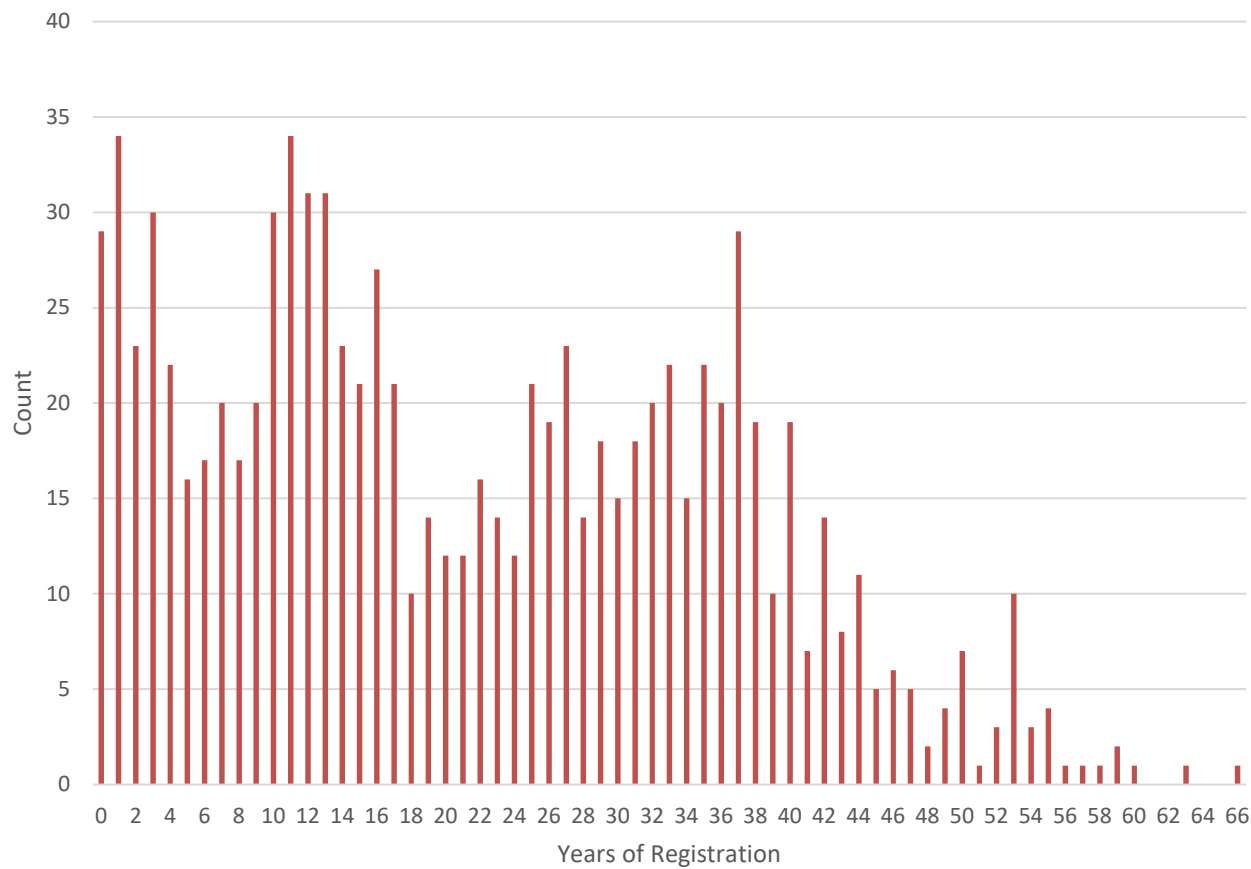


Registration

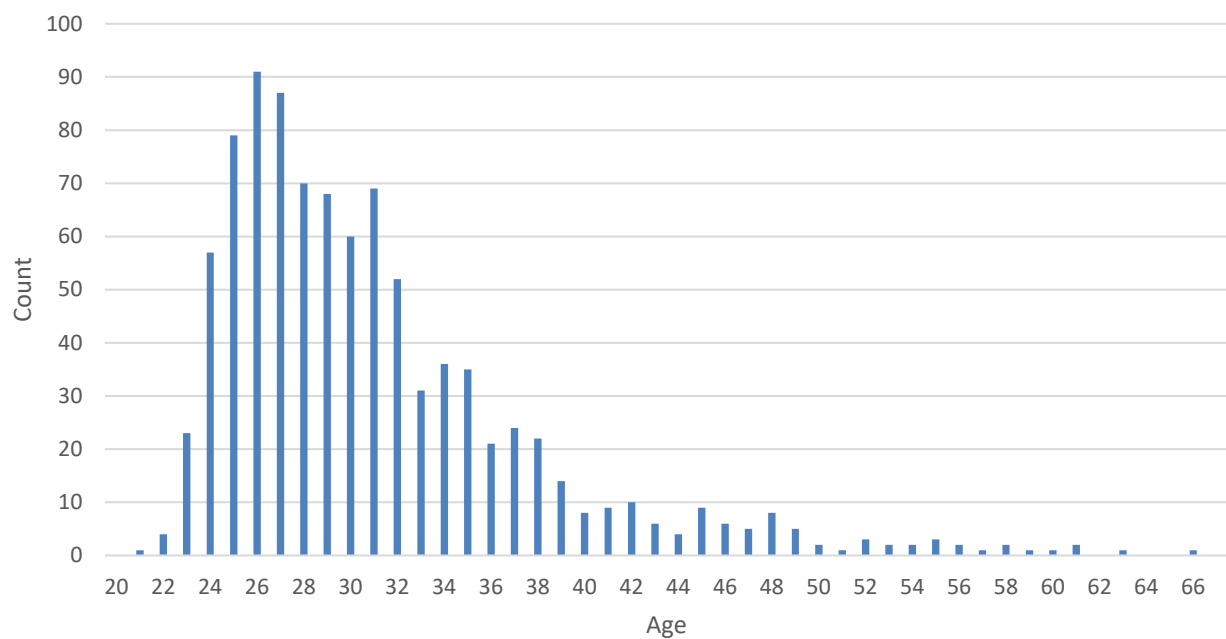
The initial registration year of the current financial registered land surveyors spans from the 1950s to the present date. The below graph shows a breakdown by decade.



The following graph shows the length of time current financial registered land surveyors have been registered. The longest span of registration is 66 years, with the average being 22 years.



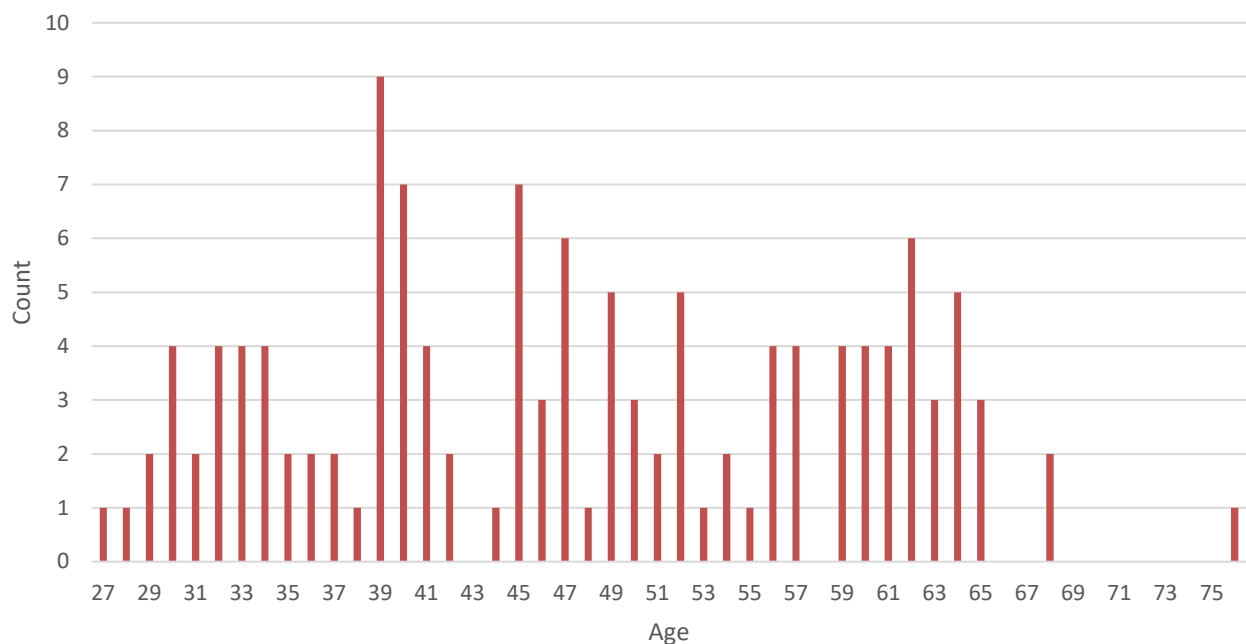
The age of land surveyors when they have gained registration is displayed below. Most surveyors gained their initial registration in their 20s, with the youngest being 21 and the oldest being 66. The average age is 31 with the largest age group being 26 years.



Registered Mining Surveyors

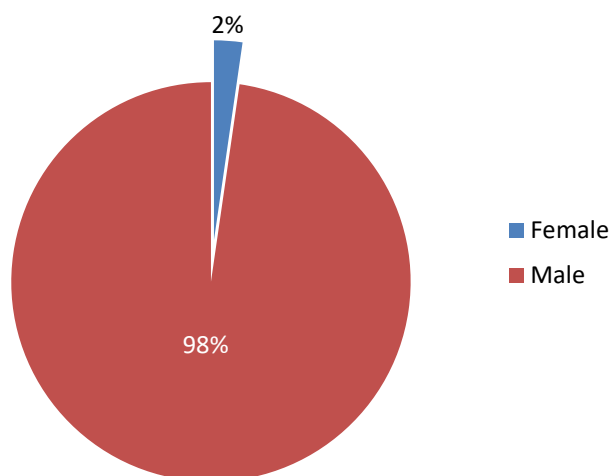
Age Profile

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 39-year age group. The oldest financial registered mining surveyor is 76 and the youngest is 27.



Gender Diversity

The gender diversity of financial registered mining surveyors is currently 125 males and 3 females.



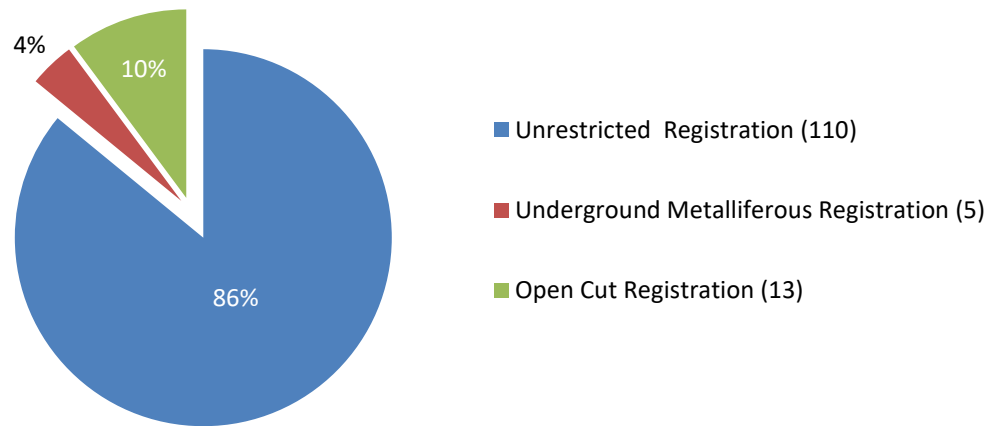
Recognised Qualifications

The names of the institutions where current financial registered mining surveyors have gained their recognised qualifications are listed in the table below:

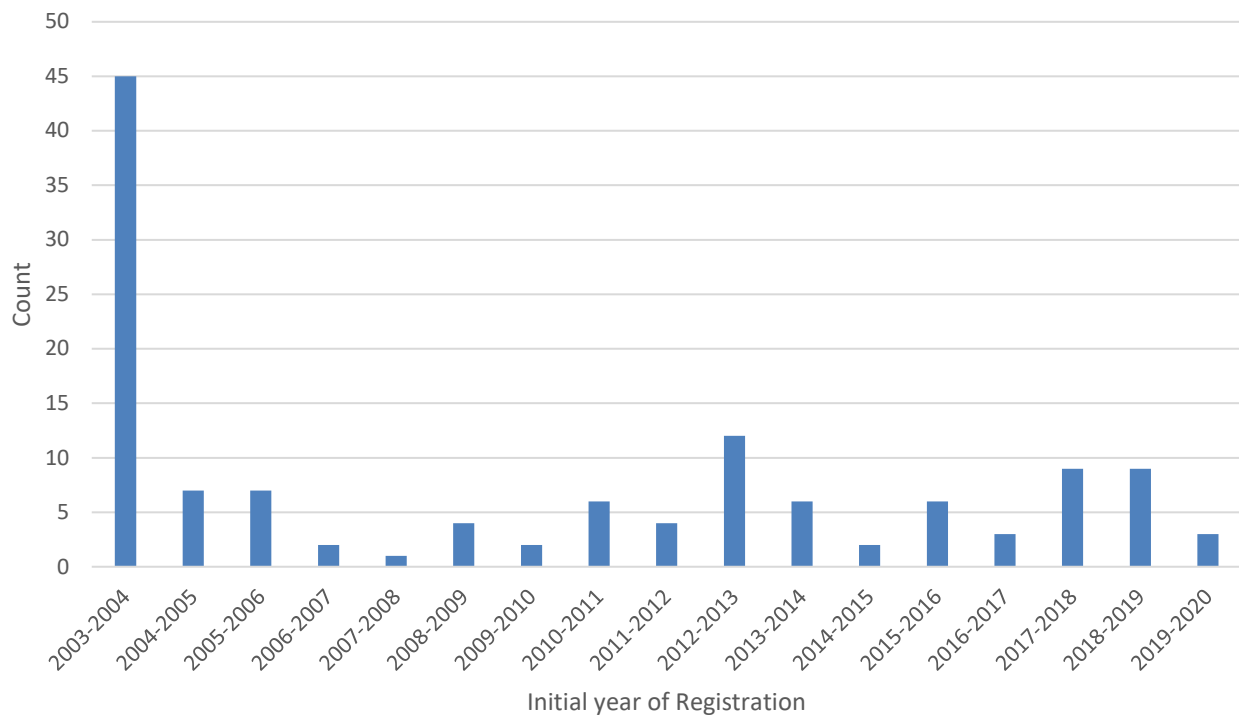
UNIVERSITY OF SOUTHERN QUEENSLAND	25
UNIVERSITY OF NEWCASTLE	17
COAL MINES QUALIFICATION BOARD	15
TAFE NSW	13
UNIVERSITY OF NEW SOUTH WALES	12
DEPARTMENT OF MINERAL RESOURCES DEVELOPMENT	4
DEPARTMENT OF INDUSTRIAL RELATIONS	4
MINE SURVEYORS CERTIFICATE OF COMPETENCY	3
DEPARTMENT OF MINES NSW	3
DEPARTMENT OF MINERAL RESOURCES	3
ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY	3
UNIVERSITY OF SOUTH AUSTRALIA	2
SURVEYOR'S CERTIFICATE OF COMPETENCY	1
INSPECTION	1
UNIVERSITY COLLEGE OF SOUTH QUEENSLAND	1
RUSSIA	1
DEPARTMENT OF MINERAL RESOURCES WA	1
QUEENSLAND UNIVERSITY OF TECHNOLOGY	1
BRUCE COLLEGE OF TAFE	1
UNIVERSITY OF EXETER	1
UNIVERSITY OF ZIMBABWE	1
TSHWANE UNIVERSITY OF TECHNOLOGY	1
DEEMED 30DAYS+ MUTUAL RECOGNITION WA	1
AUTHORISED MINE SURVEYORS CERTIFICATE GRADE 1	1
CURTIN UNIVERSITY	1
Not Specified	11
Total	128

Registration

Currently the Board has three categories of mining surveyor registration, being unrestricted, underground metalliferous mines, and open cut mines.



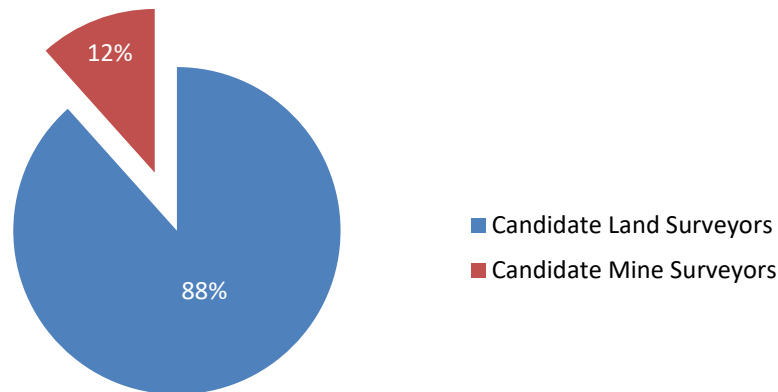
As mining surveyor registration under the *Surveying and Spatial Information Act 2002* was only introduced when the Act commenced, the initial date of registration for current financially registered mining surveyors in the Board's register spans from 2003 to present with the majority of these being in the 2003-2004 financial year.



3. Financial Candidate Surveyors

BOSSI enrolls candidate surveyors in two disciplines being land and mining. The current number of financial candidate surveyors as of 30 June 2020 is as follows:

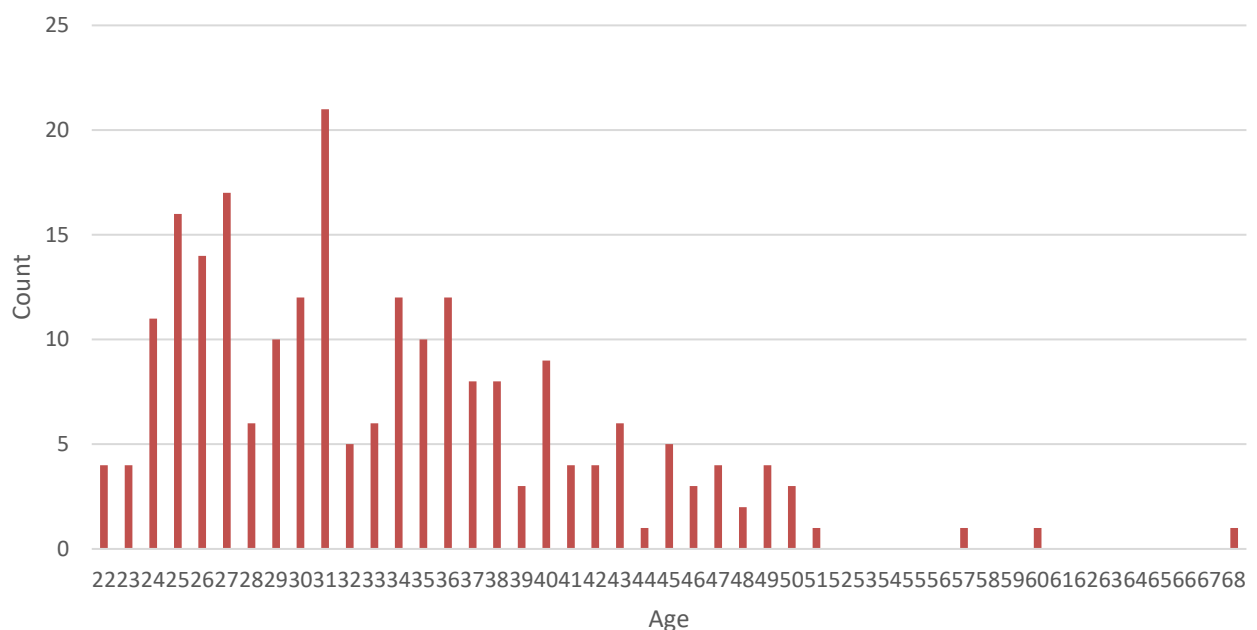
Candidate Land Surveyors	229
Candidate Mining Surveyors	26
Total	255



Candidate Land Surveyors

Age Profile

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 33 and the age group with the largest number of surveyors is the 31-year age group. The oldest financial candidate surveyor is 68 and the youngest is 22.



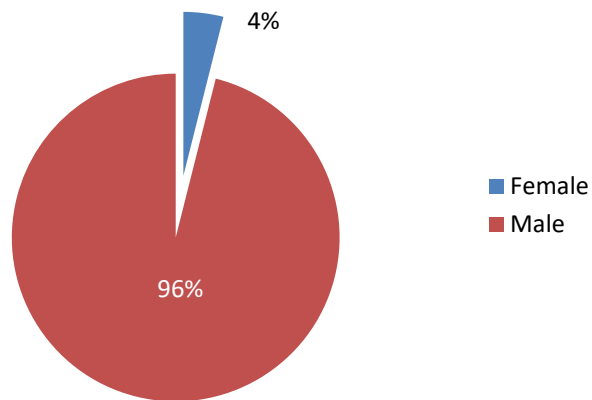
Recognised Qualifications

The names of the institutions where current financial candidate land surveyors have gained (or are gaining) their recognised qualifications are listed in the table below:

UNIVERSITY OF SOUTHERN QUEENSLAND	68
UNIVERSITY OF NEWCASTLE	63
UNIVERSITY OF NEW SOUTH WALES	53
SABARAGAMUWA UNIVERSITY	5
CURTIN UNIVERSITY	4
UNIVERSITY OF SOUTH AUSTRALIA	2
KWAME NKRUMAH UNIVERSITY OF SCIENCE & TECHNOLOGY	2
UNIVERSITY OF TASMANIA	2
UNIVERSITY OF NATAL	2
UNIVERSITY OF BELGRADE	1
UNIVERSITY COLLEGE LONDON	1
UNIVERSITY OF THE PHILIPPINES	1
DUBLIN INSTITUTE TECHNOLOGY	1
QUEENSLAND UNIVERSITY OF TECHNOLOGY	1
MIDLANDS STATE UNIVERSITY	1
SOUTH AUSTRALIA INSTITUTE OF TECHNOLOGY	1
UNIVERSITY OF ALGARVE	1
BRNO UNIVERSITY OF TECHNOLOGY	1
UNIVERSITY OF OTAGO	1
AGH UNIVERSITY OF SCIENCE & TECHNOLOGY	1
TECHNICAL UNIVERSITY OF CIVIL ENGINEERING	1
ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY	1
UNIVERSITY OF ZILINA	1
WUHAN TECHNICAL UNIVERSITY	1
HEILONGJIAN INSTITUTE OF TECHNOLOGY	1
KAZAN STATE UNIVERSITY	1
UNIVERSITY OF ISFAHAN	1
MOSCOW STATE UNIVERSITY OF GEODESY CARTOGRAPHY	1
HONG KONG POLYTECHNIC UNIVERSITY	1
ISLAMIC AZAD UNIVERSITY	1
WUHAN UNIVERSITY	1
TANTA UNIVERSITY	1
OTAGO UNIVERSITY NZ	1
UNIVERSITY OF ZAGREB	1
UNIVERSITY OF APPLIED SCIENCE DRESDEN	1
TECHNICAL UNIVERSITY OF CONSTRUCTION	1
STATE UNIVERSITY OF SAO PAULO	1
Total	229

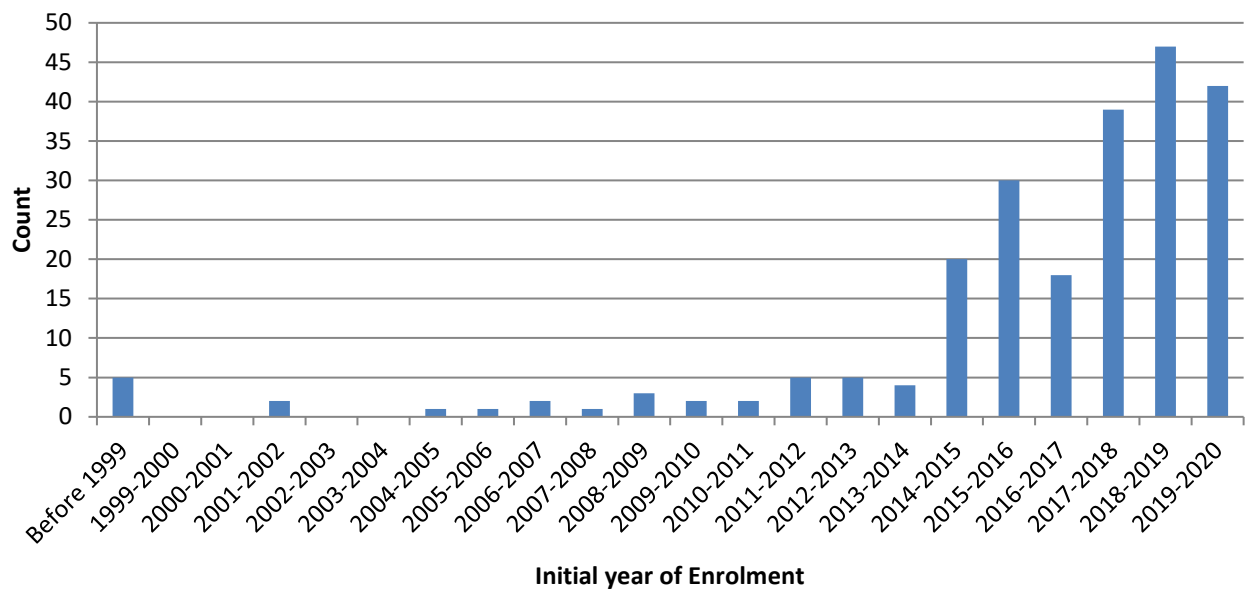
Gender Diversity

The gender breakdown of financial candidate land surveyors is currently 220 males and 9 females.



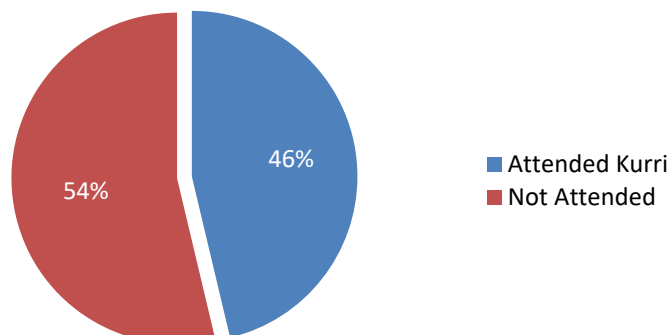
Enrolment

Most financial candidate land surveyors initially enrolled in the last 6 years. There are currently 5 financial candidate land surveyors who enrolled before the 1999-2000 financial year.



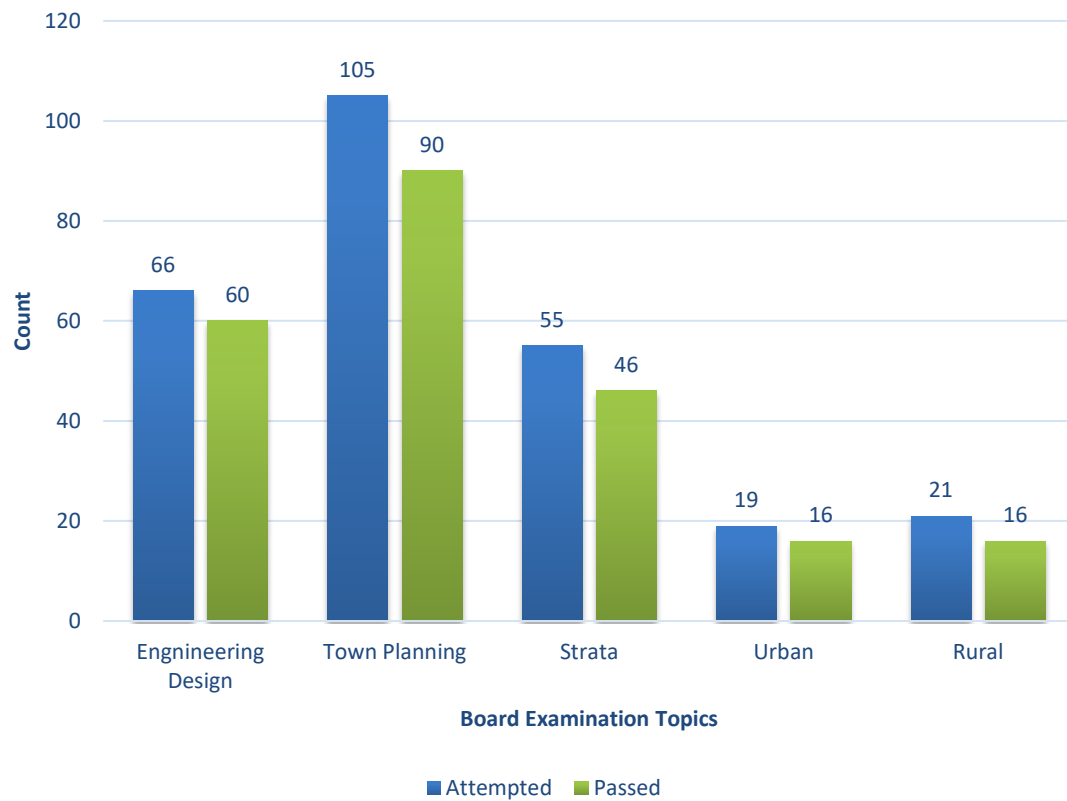
Kurri Kurri Workshop

Just under half of the financial candidate land surveyors have attended the Kurri Kurri Workshop since being enrolled as a candidate.

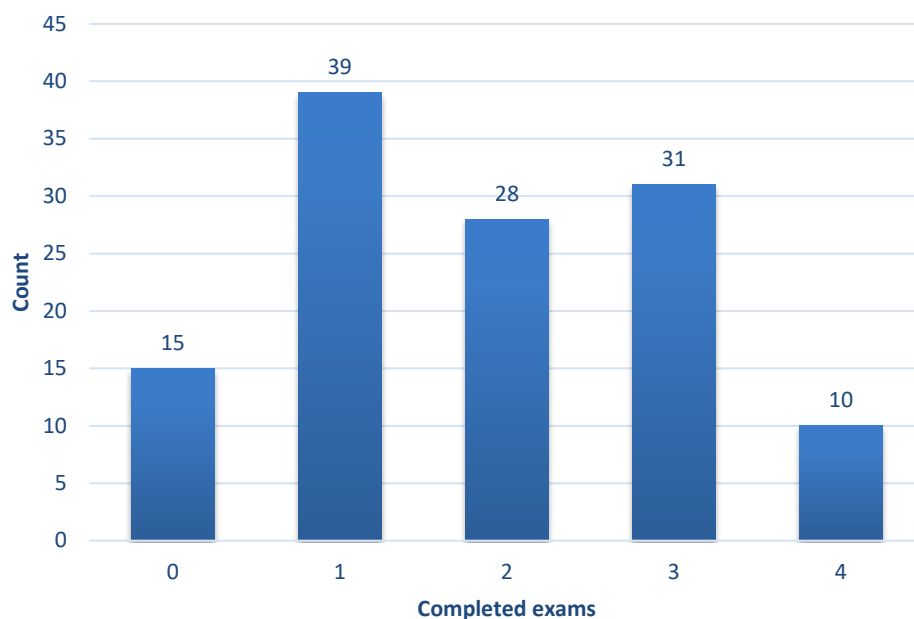


Board Examination Progress

123 currently financial candidate land surveyors have attempted at least 1 Board examination. The below graph highlights the number of candidates that have attempted/passed each of the 5 competency exams.



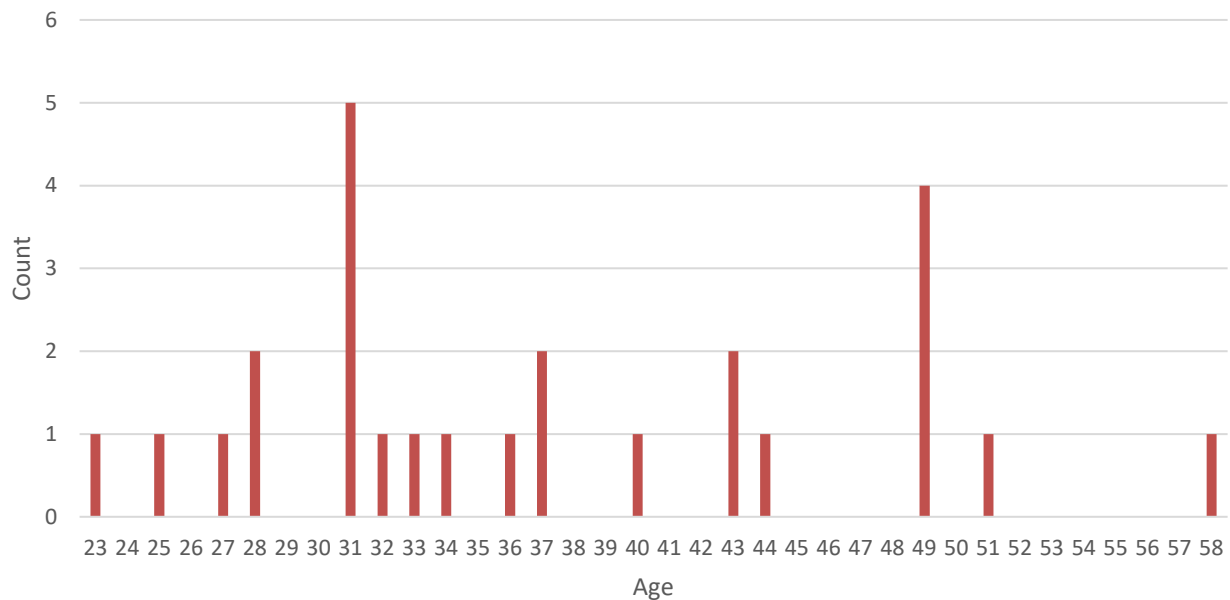
The following graph outlines their progress towards a certificate of competency.



Candidate Mining Surveyors

Age Profile

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 37 and the age group with the largest number of surveyors is the 31-year age group. The oldest financial candidate mining surveyor is 58 and the youngest is 23.



Recognised Qualifications

The names of the institutions where current financial candidate mining surveyors have gained (or are gaining) their recognised qualifications are listed in the table below:

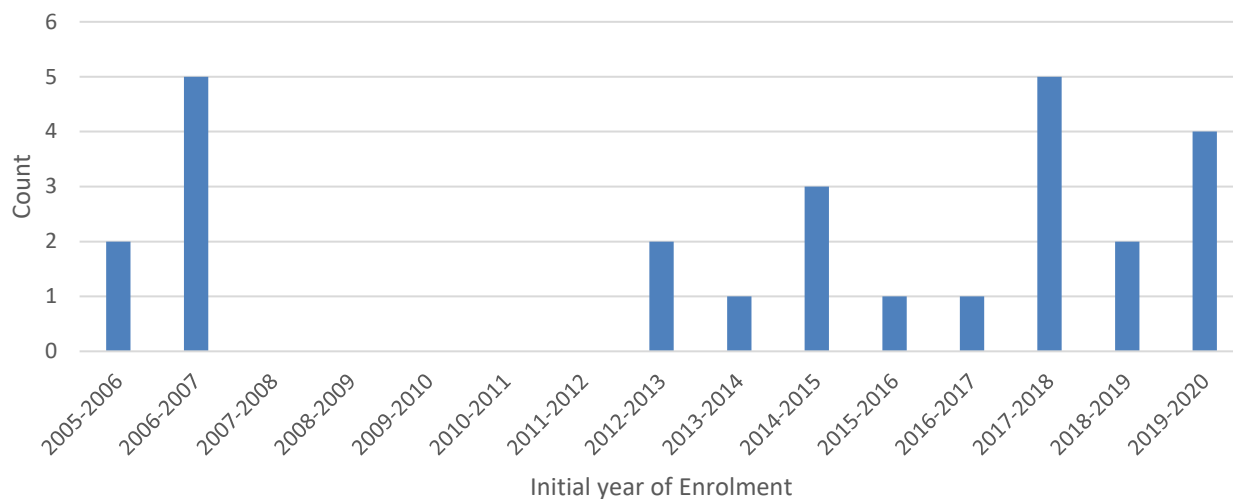
UNIVERSITY OF SOUTHERN QUEENSLAND	10
UNIVERSITY OF NEWCASTLE	6
TAFE NSW	5
UNIVERSITY OF NEW SOUTH WALES	1
DEPARTMENT OF TECHNICAL & FURTHER EDUCATION	1
DONG A UNIVERSITY & SCHOOL SURVEYING &SIS	1
PAPUA NEW GUINEA UNIVERSITY TECHNOLOGY	1
TECHNIKON PRETORIA	1
Total	26

Gender Diversity

The gender breakdown of financial candidate mining surveyors is currently 26 males and 0 females.

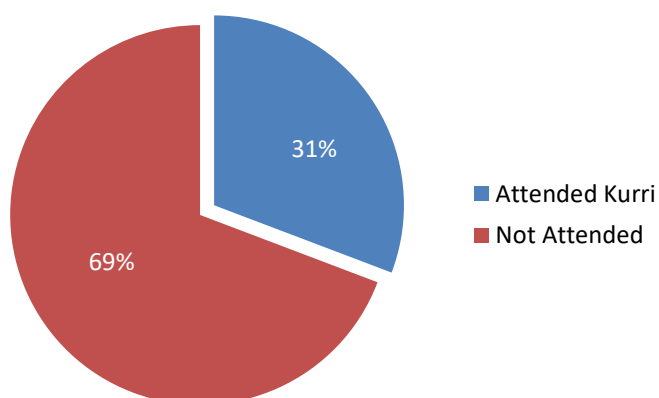
Enrolment

The below graph shows the financial year when current financial candidate mining surveyors initially enrolled with most enrolments occurring within the last 8 years.



Kurri Kurri Workshop

Only one third of the financial candidate mining surveyors have attended the Kurri Kurri Workshop since being enrolled as a candidate.



Board Examination Progress

6 currently financial candidate mining surveyors have attempted at least 1 Board examination. The following table outlines their progress towards a certificate of competency.

	Attempted	Passed
Mining surveys, formal mine survey plans & archival research	3	3
Design and survey of engineering work	2	2
Planning & mining approvals	3	2
Legislation	4	2
Oral	1	0

4. Trends

New Candidate Applications (Land and Mining)

19/20	18/19	17/18	16/17	15/16	14/15	13/14
49	60	72	56	75	59	46

Total financial Candidates (Land and Mining)

19/20	18/19	17/18	16/17	15/16	14/15	13/14
255	241	247	229	232	197	161

Certificates of Competency issued

	19/20	18/19	17/18	16/17	15/16	14/15
Land	25	27	18	21	19	15
Mining	3	6	5	2	6	3

Meritorious Certificates issued

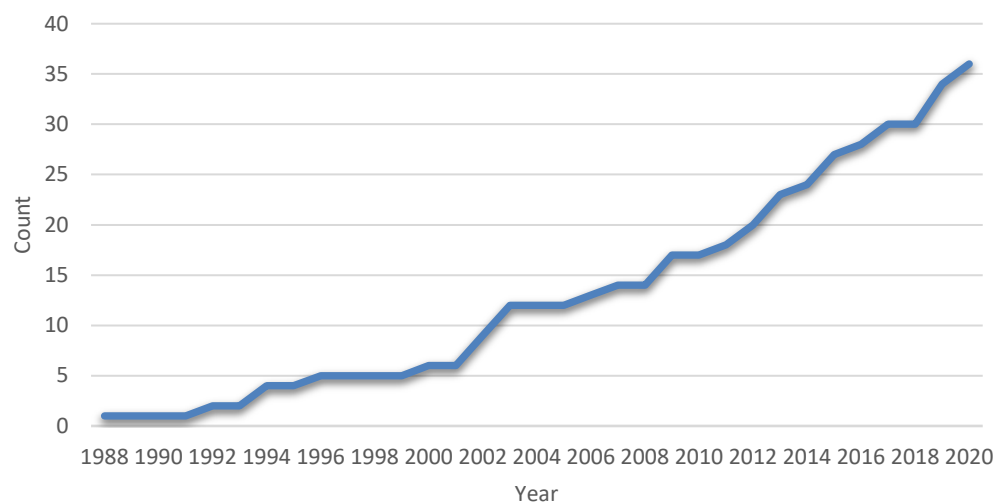
19/20	18/19	17/18	16/17	15/16	14/15	13/14
18	24	14	22	19	20	23

Registered Surveyors

	19/20	18/19	17/18	16/17	15/16	14/15	13/14
Land	920	928	917	907	913	916	927
Mining	110	116	128	105	107	107	108
Land & Mining	18	15	19	17	17	18	17
Total	1048	1059	1064	1029	1037	1041	1052

Gender Diversity

Female Registered Surveyors



Board of Surveying & Spatial Information

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