



Apprenticeship and Industry Training Statistical Profiles 2017

APPRENTICESHIP AT A GLANCE

Apprenticeship and Industry Training in Alberta

- Alberta's apprenticeship and industry training system is designed to develop and certify highly knowledgeable and skilled journeypersons in-line with the needs of the labour market and industry needs.
- Collaboration and partnerships among government, industry and training providers help ensure that the apprenticeship training system is responsive to the needs of apprentices, industry and the economy.
- There are currently more than 50 designated trades and occupations.
- Approximately 80 per cent of an apprentice's education is completed on the job and is provided through the employer under the guidance of a certified journeyperson or qualified individual. The other 20 per cent is completed through formal instruction primarily provided at, or through, a public post-secondary institution.
- The formal instruction, or technical training, is most often delivered through 'block release', where the apprentice spends a block of time, generally eight weeks per year, in classroom instruction. Formal instruction may also be offered in other formats in some trades such as competency-based apprenticeship training (CBAT), distance delivery, weekly apprenticeship training system (WATS), mobile delivery, and blended learning.
- Most apprenticeship programs are three to four years in length.
- While many Albertans begin an apprenticeship through employment, various alternative pathways are also available:
 - High school students can register through the Registered Apprenticeship Program (RAP). In RAP, they obtain on-the-job training and work experience as credit toward both an apprenticeship program and a high school diploma while earning an income.
 - High school students can also participate in apprenticeship training through Career Technology Studies (CTS) Pathways to Apprenticeship programs that include first period technical training curriculum in 20 different trades. CTS students can receive advanced standing should they choose to continue with a formal apprenticeship program after high school.
 - Many post-secondary institutions, as well as some union training providers and community organizations, provide apprenticeship preparatory programs for adult Albertans. Some programs provide foundational academic and workplace essential skills and focus on improving employability, while others include first period technical training curriculum.

- In keeping with the Mobility Protocol, apprentices from other jurisdictions in Canada are recognized at the same level as their home jurisdiction. The transition is facilitated to ensure that the best interests of those apprentices are met.



Financial Support for Apprentices

- Apprentices can access a variety of financial supports including loans, grants, scholarships and awards.
- Apprentices can apply for Alberta student loans and grants through Alberta Student Aid. Loans are also available through the Canada Apprentice Loan for apprentices registered in Red Seal trades.
- Most apprentices are eligible for employment insurance while attending formal instruction.
- Advanced Education also provides the First Period Apprentice Award to encourage first period apprentices to pursue technical training, and the Apprentice Training Award to reduce financial barriers for unemployed apprentices.
- A number of scholarships are also available to reward excellence. In 2017, approximately 700 scholarships were provided to Alberta apprentices, including high school students participating in RAP, through the Alberta Apprenticeship and Industry Training Board Family of Scholarships.

Alberta's Network of Industry Committees

- Alberta's apprenticeship and industry training system relies on an extensive network of approximately 160 committees and more than 700 individual industry representatives from grassroots industry through to the Alberta Apprenticeship and Industry Training Board. The committees are composed of equal numbers of employers and employees.
- The role of the committees includes recommending the standards for the skills and competencies required for certification, establishing technical training course outlines, recognizing related training and certification and making recommendations about the designation of trades and occupations.
- Committee members surveyed in 2016 agreed or strongly agreed (88%) that their committee's work was contributing to positive change in their trade/occupation.

For more information on Alberta's apprenticeship and industry training system, go to tradesecrets.alberta.ca.

APPRENTICESHIP STATISTICS AT A GLANCE - 2017

As of December 31, 2017...

- there were more than 50,600 registered apprentices.
- more than 2,600 apprentices registered self-identified as Indigenous and more than 5,100 were women.
- approximately 840 high school students were registered in the Registered Apprenticeship Program (RAP), and were employed at 600 employer sites.
- more than 2,500 apprentices who started RAP in high school were continuing in a regular apprenticeship program.

In 2017...

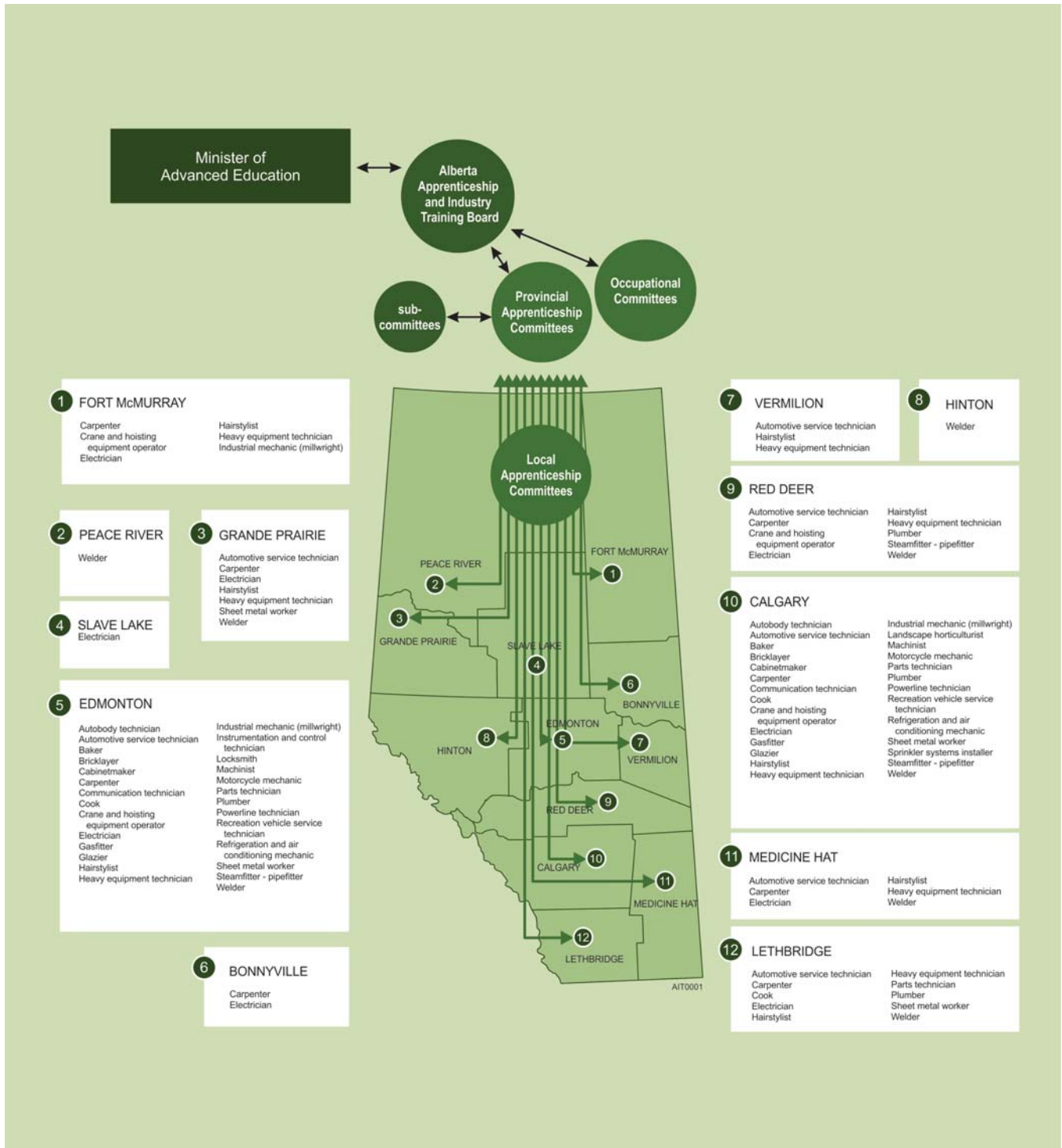
- more than 12,600 new apprentices registered.
- the most common age for Alberta apprentices to register in their first trade is 18.
- apprentices were being trained at more than 13,300 employer sites around Alberta.
- more than 10,200 individuals were certified in Alberta's designated trades and occupations. (This includes completed apprentices and individuals issued occupation and qualification certificates).
- Alberta Advanced Education staff completed more than 11,000 shop registrations through site visits in 2017. These site visits provide an opportunity to promote apprenticeship and industry training programs, and work with employers and apprentices to ensure the successful completion of apprenticeship training.
- over three-quarters (77%) of apprentices were registered in compulsory certification trades with the remaining 23% in optional certification trades.

Other Interesting Facts...

- More than 5,000 individuals who began their apprenticeship through RAP have gone on to complete their program and become certified journeypersons.
- Although Alberta has only 13 per cent of Canada's labour force, it trains approximately 20 per cent of the country's apprentices.
- Alberta welcomes tradespeople from other jurisdictions and recognizes all Canadian trade certificates.
- Alberta also promotes the acquisition of the Interprovincial Standards Red Seal. Alberta has produced more tradespeople with an Interprovincial Standards Red Seal than any other jurisdiction in Canada.
- The majority of 2014/2015 graduates in Alberta who participated in the most recent apprenticeship graduate survey expressed satisfaction with:
 - the overall quality of on-the-job training (93%);
 - the overall quality of their technical training (94%); and
 - their experience with the apprenticeship program – 94% would still have chosen to become an apprentice.
- According to a 2017 survey of employers, overall satisfaction with Alberta's apprenticeship and trade certification system remains high with 90 per cent of respondents expressing satisfaction with the system.
- The majority of employers who participated in the 2017 employer survey expressed satisfaction with:
 - the skills of certified journeypersons (97%);
 - apprenticeship technical training (87%); and
 - the effectiveness of on-the-job training (95%).



STRUCTURE AND ORGANIZATION OF THE ALBERTA APPRENTICESHIP AND INDUSTRY TRAINING SYSTEM



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TABLE 1

Part A: Total and New Apprentices Registered by Year

	2012	2013	2014	2015	2016	2017
Total Apprentices Registered (all trades)	61,326	65,880	70,733	67,955	58,337	50,611
New Apprentices Registered (all trades)	21,906	22,129	23,900	17,227	13,004	12,637

Source: Alberta Advanced Education

(Note 1)

Total Apprentices Registered: Total number registered as of December 31, 2017. Apprentices may be registered in more than one trade or branch of a trade within the same year but are counted here only once.

New Apprentices Registered: All apprentices registering during a single calendar year. The number includes those who are returning to do an additional apprenticeship after completing one or more apprenticeships in previous years, or continuing an apprenticeship in another trade for which they registered in a previous year. Apprentices who registered in more than one trade or branch of a trade within a specific year, or who changed from one branch of a trade to another branch within the same trade on the same day, are counted only once. The number does not include reinstated apprentices (unless reinstated in the same year).

Note 1: As a result of an error in the number of new apprentices registered in the locksmith trade reported in the 2016 Statistical Profiles, the total number of new apprentices reported last year was incorrect. A total of 13,094 was reported. The correct total is 13,004 which is now reflected in the table.

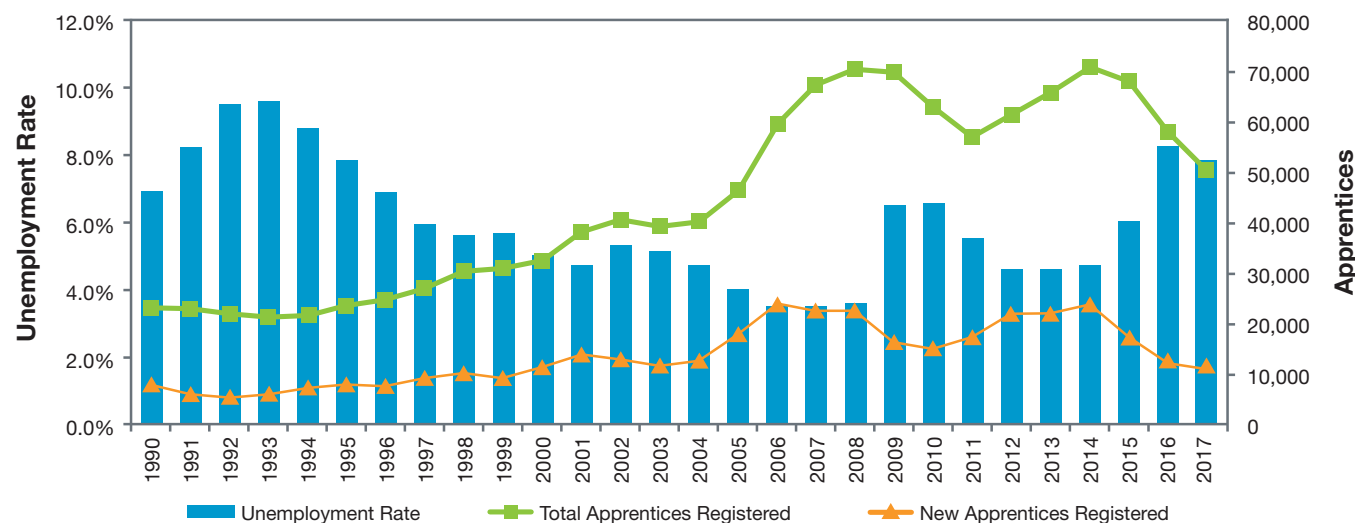
Part B: Provincial Labour Force Statistics by Year

	2012	2013	2014	2015	2016	2017
Labour Force	2,253,458	2,333,108	2,386,250	2,449,167	2,464,600	2,481,660
Employed	2,149,600	2,226,200	2,274,600	2,301,100	2,263,800	2,286,900
Unemployed	103,900	106,900	111,700	148,100	200,800	194,800
Unemployment Rate (%)	4.6%	4.6%	4.7%	6.0%	8.2%	7.9%

Source: Alberta Labour

CHART 1

Alberta Unemployment Rates¹ and Total and New Apprentices Registered by Year



Source: Alberta Advanced Education and Alberta Labour

¹ Annual averages

* As a result of an error in the number of new apprentices registered in the locksmith trade reported in the 2016 Statistical Profiles, the total number of new apprentices reported last year was incorrect. A total of 13,094 was reported. The correct total is 13,004 which is now reflected in the chart.

TABLE 2

Total Number of Apprentices Registered by Trade¹

TRADE AND BRANCH	2012	2013	2014	2015	2016	2017	2016-17 % change
Agricultural Equipment Technician ■	186	203	195	199	164	161	-2%
Appliance Service Technician	80	76	75	75	75	73	-3%
Appliance Service Technician • ■	65	64	64	68	70	66	-6%
Commercial Appliance Service Technician •	15	12	11	7	5	7	40%
Auto Body Technician	681	664	696	661	665	636	-4%
Auto Body Technician • ■	521	519	538	514	504	500	-1%
Prepper •	7	13	12	20	24	19	-21%
Refinisher • ■ (Note 1)	78	66	93	87	94	78	-17%
Repairer • (Note 1)	75	66	53	40	43	39	-9%
Automotive Service Technician • ■	2,840	2,952	3,183	3,205	3,068	3,018	-2%
Baker ■	170	180	203	174	177	183	3%
Boilermaker • ■	431	436	469	478	527	470	-11%
Bricklayer ■	203	176	172	182	170	158	-7%
Cabinetmaker ■	311	277	279	258	257	263	2%
Carpenter ■	3,651	3,448	3,525	3,374	3,104	2,799	-10%
Communication Technician	217	153	124	140	135	95	-30%
Concrete Finisher ■	58	67	65	71	57	43	-25%
Cook ■	937	900	973	976	977	875	-10%
Crane and Hoisting Equipment Operator	2,831	3,263	3,249	3,017	2,354	1,892	-20%
Boom Truck Operator •	911	1,029	1,071	1,014	827	614	-26%
Mobile Crane Operator • ■	775	1,005	1,070	1,042	804	586	-27%
Tower Crane Operator • ■	52	60	65	75	53	48	-9%
Wellhead Boom Truck Operator •	1,093	1,169	1,043	886	670	644	-4%
Electric Motor Systems Technician ■	65	65	43	34	35	33	-6%
Electrician • ■	10,343	11,387	13,151	13,258	11,714	10,321	-12%
Elevator Constructor •	179	186	179	253	318	289	-9%
Floorcovering Installer ■	48	57	40	43	35	32	-9%
Gasfitter	410	381	429	529	506	486	-4%
Gasfitter A • ■	352	326	376	450	420	397	-5%
Gasfitter B • ■	58	55	53	79	86	89	3%
Glazier	305	280	258	270	287	290	1%
Glazier ■	301	276	254	268	287	290	1%
Auto Glass Technician (Note 2)	4	4	4	2	0	N/A	N/A
Hairstylist • ■	2,288	2,359	2,324	2,222	2,218	2,241	1%
Heavy Equipment Technician	5,492	5,954	6,550	6,195	4,933	4,214	-15%
Heavy Equipment Technician •	4,560	4,982	5,447	4,970	3,842	3,191	-17%
Heavy Duty Equipment Mechanic (Off Road) • ■	306	335	374	443	387	361	-7%
Transport Trailer Mechanic •	112	105	137	145	117	101	-14%
Truck and Transport Mechanic • ■	514	532	592	637	587	561	-4%
Industrial Mechanic (Millwright) ■ (Note 3)	1,909	2,107	2,269	2,176	1,814	1,554	-14%
Instrumentation and Control Technician ■ (Note 4)	1,764	1,943	2,157	1,956	1,580	1,429	-10%
Insulator (Heat and Frost) ■ (Note 5)	698	726	800	786	756	826	9%
Ironworker	1,416	1,589	1,513	1,665	1,647	1,156	-30%
Ironworker • ■ (Note 6)	360	368	358	371	358	265	-26%
Metal Building Systems Erector •	90	111	112	91	77	56	-27%
Ironworker (Reinforcing) • ■	273	268	313	337	270	316	17%
Ironworker (Structural/Ornamental) • ■	693	842	730	866	942	519	-45%
Landscape Horticulturist ■ (Note 7)	162	160	147	147	155	147	-5%

(continued)

TABLE 2 (continued)

Total Number of Apprentices Registered by Trade¹

TRADE AND BRANCH	2012	2013	2014	2015	2016	2017	2016-17 % change
Lather (Interior Systems Mechanic) ■	62	86	111	118	111	98	-12%
Locksmith	83	91	118	133	143	127	-11%
Machinist ■	779	852	841	753	529	367	-31%
Metal Fabricator (Fitter) ■ (Note 8)	175	157	136	129	99	76	-23%
Motorcycle Mechanic • ■	198	216	208	203	186	148	-20%
Natural Gas Compression Technician	15	25	32	28	24	19	-21%
Outdoor Power Equipment Technician	88	75	67	58	63	61	-3%
Power	44	37	32	14	20	26	30%
Recreational	44	38	35	44	43	35	-19%
Painter and Decorator ■	108	101	97	95	120	78	-35%
Parts Technician	1,007	1,127	1,193	1,128	953	793	-17%
Parts Technician ■	893	1,000	1,064	1,010	852	722	-15%
Materials Technician	114	127	129	118	101	71	-30%
Plumber • ■ (Note 9)	3,286	3,397	3,800	4,047	3,775	3,330	-12%
Powerline Technician ■	658	733	891	882	672	528	-21%
Power System Electrician	369	444	484	455	260	197	-24%
Recreation Vehicle Service Technician • ■	102	111	131	157	151	138	-9%
Refrigeration and Air Conditioning Mechanic • ■	753	760	821	822	844	795	-6%
Rig Technician • ■	2,832	2,345	2,168	1,797	1,147	823	-28%
Roofer ■	212	198	195	190	217	220	1%
Sawfiler (Note 10)	4	0	N/A	N/A	NA	N/A	N/A
Sawfiler	4	0	N/A	N/A	NA	N/A	N/A
Circular Sawfiler	0	0	N/A	N/A	NA	N/A	N/A
Sheet Metal Worker • ■	1,155	1,179	1,306	1,375	1,428	1,342	-6%
Sprinkler Systems Installer ■	263	273	281	338	322	285	-11%
Steamfitter-Pipefitter • ■	4,160	5,250	5,769	5,261	4,211	3,334	-21%
Tilesetter ■	34	22	20	20	11	11	0%
Transport Refrigeration Technician	28	36	37	33	25	29	16%
Water Well Driller	45	48	46	45	34	26	-24%
Welder	7,235	8,365	8,913	7,544	5,284	4,102	-22%
Welder • ■	7,183	8,317	8,840	7,490	5,248	4,072	-22%
Wire Processor •	52	48	73	54	36	30	-17%
Total	61,326	65,880	70,733	67,955	58,337	50,611	-13%

Source: Alberta Advanced Education

¹ Total number of apprentices registered as of December 31 each year. Apprentices may be registered in more than one trade or branch of a trade within the same year but are counted here only once. Apprentices registered and employed in another jurisdiction but taking training only in Alberta are not included here.

- = Compulsory certification trade
- = Red Seal trade

N/A = Not Applicable. Data does not exist in the specified years.

- Note 1:** In 2017, 13 of the 78 individuals registered in the refinisher branch of the auto body technician trade were also registered in the repairer branch of that trade.
- Note 2:** Effective January 1, 2015, the designation of auto glass technician as a branch of the glazier trade was rescinded. Apprentices registered in the program before that date could continue in the program until December 31, 2016.
- Note 3:** Effective September 1, 2017, the name of the millwright trade was changed to industrial mechanic (millwright).
- Note 4:** Effective September 1, 2017, the name of the instrument technician trade was changed to instrumentation and control technician.
- Note 5:** Effective September 1, 2017, the name of the insulator trade was changed to insulator (heat and frost).
- Note 6:** Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the program before that day can continue in the program until August 31, 2023.
- Note 7:** Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.
- Note 8:** Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).
- Note 9:** In previous Statistical Profiles, the plumber trade data was divided by 'plumber & gasfitter B' and 'plumber' to distinguish between plumber apprentices who received their gasfitter B certification through their plumber apprenticeship program and those who had previously obtained their gasfitter B certification. Effective August 3, 2017, plumber will be reported as a single parent trade in accordance with the Plumber Trade Regulation.
- Note 10:** Effective July 1, 2013, the designation of the trade of sawfiler was rescinded.

TABLE 3

New Apprentices Registered by Trade¹

TRADE AND BRANCH	2012	2013	2014	2015	2016	2017	2016-17 % change
Agricultural Equipment Technician	63	59	50	57	33	47	42%
Appliance Service Technician	26	19	25	19	27	29	7%
Appliance Service Technician	23	16	22	18	26	24	-8%
Commercial Appliance Service Technician	3	3	3	1	1	5	400%
Auto Body Technician	206	196	250	176	208	183	-12%
Auto Body Technician	174	157	199	133	144	138	-4%
Prepper	4	10	11	14	16	9	-44%
Refinisher	19	19	30	22	32	23	-28%
Repairer	9	10	10	7	16	13	-19%
Automotive Service Technician	804	886	1,027	856	712	766	8%
Baker	74	64	69	62	57	68	19%
Boilermaker	132	154	137	134	199	88	-56%
Bricklayer	39	45	40	64	53	36	-32%
Cabinetmaker	91	73	103	71	80	90	13%
Carpenter	1,046	1,026	1,134	935	758	758	0%
Communication Technician	63	30	32	48	34	25	-26%
Concrete Finisher	25	39	23	38	18	16	-11%
Cook	346	317	391	348	321	275	-14%
Crane and Hoisting Equipment Operator	1,284	1,330	1,223	763	489	629	29%
Boom Truck Operator	409	419	433	266	160	206	29%
Mobile Crane Operator	364	431	344	261	188	145	-23%
Tower Crane Operator	26	30	28	38	12	17	42%
Wellhead Boom Truck Operator	485	450	418	198	129	261	102%
Electric Motor Systems Technician	18	23	13	7	15	10	-33%
Electrician	2,921	3,338	4,153	2,956	1,923	1,809	-6%
Elevator Constructor	15	59	40	89	96	28	-71%
Floorcovering Installer	13	30	16	19	10	9	-10%
Gasfitter	177	151	200	230	182	183	1%
Gasfitter A	141	128	165	180	141	135	-4%
Gasfitter B	36	23	35	50	41	48	17%
Glazier	68	72	81	84	87	93	7%
Glazier	68	68	81	84	87	93	7%
Auto Glass Technician (Note 1)	0	4	0	N/A	NA	N/A	N/A
Hairstylist	866	809	856	719	801	876	9%
Heavy Equipment Technician	2,064	1,835	2,081	1,305	849	1,116	31%
Heavy Equipment Techniciac	1,685	1,485	1,626	854	548	751	37%
Heavy Duty Equipment Mechanic (Off Road)	148	116	156	178	105	130	24%
Transport Trailer Mechanic	51	46	75	57	45	47	4%
Truck and Transport Mechanic	180	188	224	216	151	188	25%
Industrial Mechanic (Millwright) (Note 2)	668	670	636	450	337	377	12%
Instrumentation and Control Technician (Note 3)	621	684	738	418	354	391	10%
Insulator (Heat and Frost) (Note 4)	217	266	373	252	276	290	5%
Ironworker	810	779	642	746	594	330	-44%
Ironworker (Note 5)	205	178	159	156	146	58	-60%
Metal Building Systems Erector	53	74	58	40	21	23	10%
Ironworker (Reinforcing)	190	149	201	188	123	180	46%
Ironworker (Structural/Ornamental)	362	378	224	362	304	69	-77%
Landscape Horticulturist (Note 6)	43	50	38	44	49	42	-14%

(continued)

TABLE 3 (continued)

New Apprentices Registered by Trade¹

TRADE AND BRANCH	2012	2013	2014	2015	2016	2017	2016-17 % change
Lather (Interior Systems Mechanic)	26	47	45	44	37	27	-27%
Locksmith <i>(Note 7)</i>	24	31	53	40	30	37	23%
Machinist	305	262	227	135	61	85	39%
Metal Fabricator (Fitter) <i>(Note 8)</i>	92	50	44	37	22	26	18%
Motorcycle Mechanic	77	80	69	66	49	38	-22%
Natural Gas Compression Technician	16	15	15	5	4	0	-100%
Outdoor Power Equipment Technician	35	25	27	23	24	22	-8%
Power	20	13	11	4	8	12	50%
Recreational	15	12	16	19	16	10	-38%
Painter and Decorator	39	35	47	31	63	21	-67%
Parts Technician	464	428	429	342	246	219	-11%
Parts Technician	413	369	374	299	200	194	-3%
Materials Technician	51	59	55	43	46	25	-46%
Plumber <i>(Note 9)</i>	822	985	1,267	1,105	785	614	-22%
Powerline Technician	235	278	338	205	86	150	74%
Power System Electrician	150	216	198	163	56	58	4%
Recreation Vehicle Service Technician	38	41	57	52	47	36	-23%
Refrigeration and Air Conditioning Mechanic	217	214	246	213	230	186	-19%
Rig Technician	944	589	635	323	77	86	12%
Roofer	85	57	76	69	100	63	-37%
Sawfiler <i>(Note 10)</i>	3	0	N/A	N/A	NA	N/A	N/A
Sawfiler	3	0	N/A	N/A	NA	N/A	N/A
Circular Sawfiler	0	0	N/A	N/A	NA	N/A	N/A
Sheet Metal Worker	246	312	443	386	384	318	-17%
Sprinkler Systems Installer	67	104	115	121	75	67	-11%
Steamfitter-Pipefitter	1,965	2,253	2,192	1,318	1,048	810	-23%
Tilessetter	13	4	7	6	2	3	50%
Transport Refrigeration Technician	15	14	15	7	9	23	156%
Water Well Driller	17	14	16	8	9	7	-22%
Welder	3,311	3,071	2,968	1,638	998	1,177	18%
Welder	3,262	3,040	2,913	1,625	983	1,164	18%
Wire Processor	49	31	55	13	15	13	-13%
Total	21,906	22,129	23,900	17,227	13,004	12,637	-3%

Source: Alberta Advanced Education

(Note 7)

¹ New apprentices include all apprentices registering during a single calendar year. The number includes those who are returning to do an additional apprenticeship after completing one or more apprenticeship programs in previous years, or continuing an apprenticeship in another trade for which they registered in a previous year. Apprentices who registered in more than one trade or branch of a trade within 2017, are counted here only once. The number does not include reinstated apprentices (unless reinstated in the same year).

N/A = Not Applicable. Data does not exist in the specified years.

Note 1: Effective January 1, 2015, the designation of auto glass technician as a branch of the glazier trade was rescinded. Apprentices registered in the program before that date could continue in the program until December 31, 2016.

Note 2: Effective September 1, 2017, the name of the millwright trade was changed to industrial mechanic (millwright).

Note 3: Effective September 1, 2017, the name of the instrument technician trade was changed to instrumentation and control technician.

Note 4: Effective September 1, 2017, the name of the insulator trade was changed to insulator (heat and frost).

Note 5: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the program before that day can continue in the program until August 31, 2023.

Note 6: Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

Note 7: In the 2016 Statistical Profiles, the number of new apprentices in the locksmith trade (120) reported was incorrect. The correct number is 30. Consequently, the total number of new apprentices was also incorrect. The number reported last year was 13,094. The correct total is 13,004. The correct numbers are now reflected in the table.

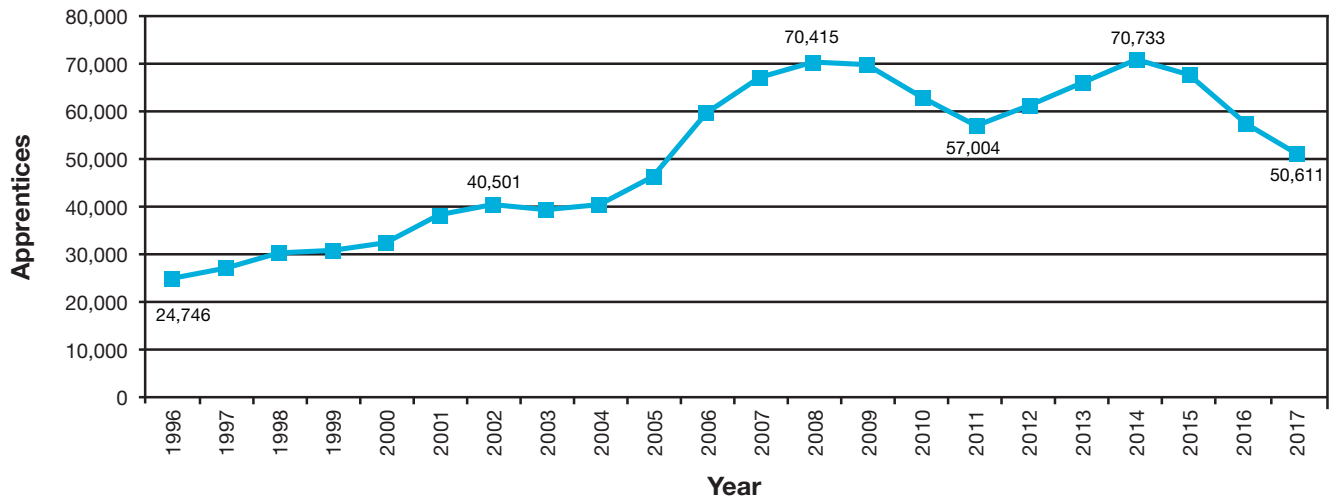
Note 8: Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

Note 9: In previous Statistical Profiles, the plumber trade data was divided by 'plumber & gasfitter B' and 'plumber' to distinguish between plumber apprentices who received their gasfitter B certification through their plumber apprenticeship program and those who had previously obtained their gasfitter B certification. Effective August 3, 2017, plumber will be reported as a single parent trade in accordance with the Plumber Trade Regulation.

Note 10: Effective July 1, 2013, the designation of the trade of sawfiler was rescinded.

CHART 2

Total Number of Apprentices Registered by Year¹

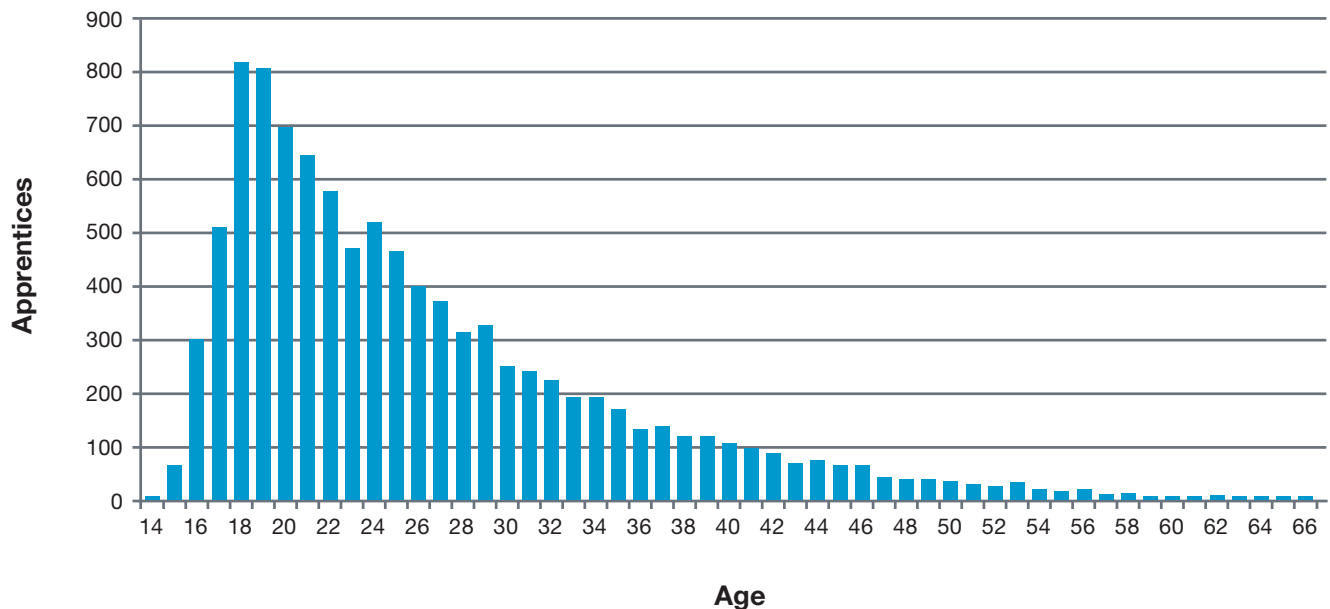


Source: Alberta Advanced Education

¹ This graph represents statistics covering a series of calendar years (January to December).

CHART 3

Age of Alberta Apprentices on Date of Registration in First Trade, 2017¹



Total number of Alberta apprentices registering in their first trade in 2017 = 9,279²

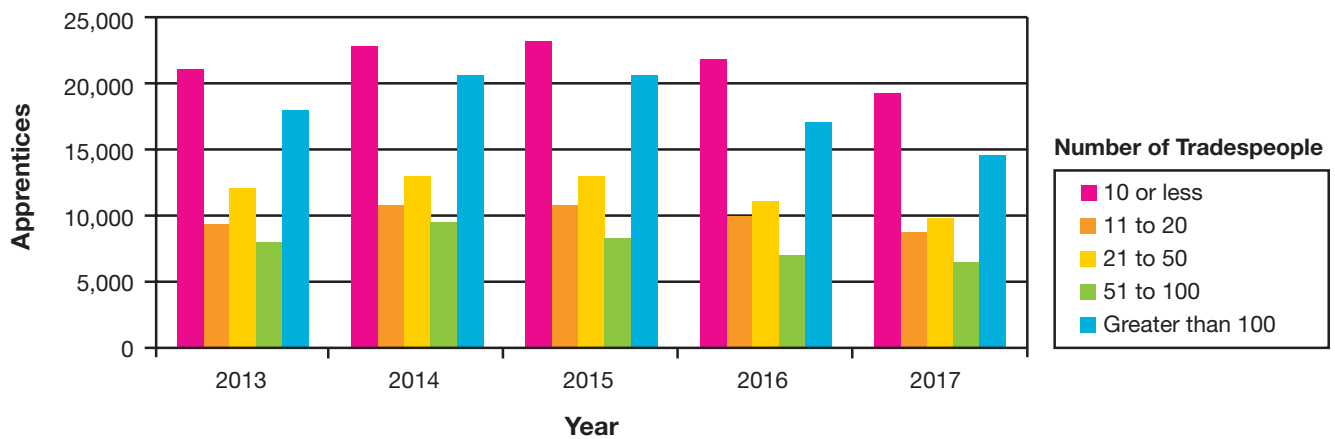
Source: Alberta Advanced Education

¹ Age at date of registration.

² The 9,279 total in the chart above includes only individuals registering in their first trade in Alberta in 2017. This number differs from the total number of new apprentices registered (12,637) as presented in Table 3. In Table 3, the number of new apprentices registered includes those who are returning to do an additional apprenticeship after completing one or more apprenticeship programs in previous years.

CHART 4

Total Apprentices Being Trained by Employer Site Size¹



Source: Alberta Advanced Education

¹ The size of an employer site is determined by the number of tradespeople.

TABLE 4

Total Number of Individuals Certified by Trade/Occupation, 2017¹

TRADE AND BRANCH/ OCCUPATION	Journeyman Certificates Issued to Completed Apprentices and Individuals Issued Occupation Certificates	Interprovincial Red Seals Issued to Completed Apprentices and Trainees (Note 1)	Qualification Certificates (Note 2)	Other Red Seals Issued (Note 3)
Agricultural Equipment Technician	33	25	0	0
Appliance Service Technician	15	11	3	2
Appliance Service Technician	13	11	3	2
Commercial Appliance Service Technician	2	N/A	0	N/A
Auto Body Technician	75	73	22	17
Auto Body Technician	44	15	11	11
Prepper	1	N/A	2	N/A
Refinisher	28	58	7	6
Repairer	2	N/A	2	N/A
Automotive Service Technician	344	323	57	53
Baker	31	30	9	10
Boilermaker	65	57	6	6
Bricklayer	21	15	1	1
Cabinetmaker	21	21	2	2
Carpenter	365	258	12	10
Communication Technician	15	N/A	0	N/A
Concrete Finisher	12	12	5	5
Cook	120	109	86	76
Crane and Hoisting Equipment Operator	391	205	21	11
Boom Truck Operator	98	N/A	13	N/A
Mobile Crane Operator	200	189	7	10
Tower Crane Operator	14	16	1	1
Wellhead Boom Truck Operator	79	N/A	0	N/A

(continued)

TABLE 4 (continued)

Total Number of Individuals Certified by Trade/Occupation, 2017¹

TRADE AND BRANCH/ OCCUPATION	Journeyman Certificates Issued to Completed Apprentices and Individuals Issued Occupation Certificates	Interprovincial Red Seals Issued to Completed Apprentices and Trainees <i>(Note 1)</i>	Qualification Certificates <i>(Note 2)</i>	Other Red Seals Issued <i>(Note 3)</i>
Electric Motor Systems Technician	8	8	0	0
Electrician	1,600	1,301	48	46
Elevator Constructor	27	N/A	5	N/A
Floorcovering Installer	3	1	0	0
Gasfitter	119	26	22	7
Gasfitter A	100	2	9	2
Gasfitter B	19	24	13	5
Glazier	31	27	0	0
Hairstylist	471	408	69	63
Heavy Equipment Technician	1,053	877	93	81
Heavy Equipment Techniciac	729	N/A	24	N/A
Heavy Duty Equipment Mechanic (Off Road)	127	204	28	28
Transport Trailer Mechanic	35	N/A	4	N/A
Truck and Transport Mechanic	162	673	37	53
Industrial Mechanic (Millwright) <i>(Note 4)</i>	426	392	17	18
Instrumentation and Control Technician <i>(Note 5)</i>	313	224	19	12
Insulator (Heat and Frost) <i>(Note 6)</i>	79	58	2	2
Ironworker	127	75	41	31
Ironworker <i>(Note 7)</i>	19	16	6	5
Metal Building Systems Erector	12	N/A	2	N/A
Ironworker (Reinforcing)	16	14	11	11
Ironworker (Structural/ Ornamental)	80	45	22	15
Landscape Horticulturist	25	21	0	0
Lather (Interior Systems Mechanic)	12	10	1	1
Locksmith	12	N/A	1	N/A
Machinist	111	93	1	1
Metal Fabricator (Fitter)	21	19	6	4
Motorcycle Mechanic	22	22	1	1
Natural Gas Compression Technician	4	N/A	2	N/A
Outdoor Power Equipment Technician	7	N/A	1	N/A
Power	4	N/A	0	N/A
Recreational	3	N/A	1	N/A
Painter and Decorator	17	14	7	6
Parts Technician	176	154	33	29
Parts Technician	163	154	28	29
Materials Technician	13	N/A	5	N/A
Plumber <i>(Note 8)</i>	412	309	8	5
Powerline Technician	210	210	30	27
Power System Electrician	36	N/A	9	N/A
Recreation Vehicle Service Technician	20	18	3	2
Refrigeration and Air Conditioning Mechanic	118	108	3	2
Rig Technician	35	26	19	16

(continued)

TABLE 4 (continued)

Total Number of Individuals Certified by Trade/Occupation, 2017¹

TRADE AND BRANCH/ OCCUPATION	Journeyman Certificates Issued to Completed Apprentices and Individuals Issued Occupation Certificates	Interprovincial Red Seals Issued to Completed Apprentices and Trainees <i>(Note 1)</i>	Qualification Certificates <i>(Note 2)</i>	Other Red Seals Issued <i>(Note 3)</i>
Roofer	21	19	17	16
Sheet Metal Worker	96	83	0	0
Sprinkler Systems Installer	35	32	2	2
Steamfitter-Pipefitter	761	468	83	67
Tilesetter	1	1	0	0
Transport Refrigeration Technician	5	N/A	0	N/A
Water Well Driller	12	N/A	1	N/A
Welder	1,256	1,016	45	38
Welder	1,252	1,016	44	38
Wire Processor	4	N/A	1	N/A
Total - Trades	9,190	7,159	813	670
Cathodic Protection Technician	39	N/A	N/A	N/A
Construction Craft Labourer	4	5	N/A	2
Field Heat Treatment Technician	7	N/A	N/A	N/A
Gas Utility Operator	20	N/A	N/A	N/A
Industrial Construction Crew Supervisor	202	N/A	N/A	N/A
Oil and Gas Transportation Services	2	N/A	N/A	N/A
Overhead Door Technician	6	N/A	N/A	N/A
Residential Construction Site Manager	2	N/A	N/A	N/A
Slickline Services	0	N/A	N/A	N/A
Snubbing Services	1	N/A	N/A	N/A
Steel Detailer	0	N/A	N/A	N/A
Well Testing Services Supervisor	4	N/A	N/A	N/A
Total - Occupations	287	5	N/A	2
TOTAL	9,477	7,164	813	672

Source: Alberta Advanced Education

¹ Individuals issued more than one certificate in 2017 are counted here only once.

N/A = Not Applicable. Data does not exist in the specified years.

Note 1: This number includes the number of 'Interprovincial Red Seals Issued to Completed Apprentices and Trainees' in 2017 regardless of the year the apprentices or trainees completed their training.

Note 2: A Qualification Certificate is a certificate issued to individuals who, through an assessment of their prior work experience, knowledge and skills in a designated trade, demonstrate they meet the standards set for certification in Alberta.

Note 3: 'Other Red Seals Issued' includes red seals issued to individuals other than those who have completed an Alberta apprenticeship or occupational training program. The number includes red seals issued to individuals who were certified through Alberta's Qualification Certificate Program or occupation training and certification program (without completing a trainee program) and to individuals who successfully completed the interprovincial examination in Alberta rather than in the jurisdiction in which they were originally certified.

Note 4: Effective September 1, 2017, the name of the millwright trade was changed to industrial mechanic (millwright).

Note 5: Effective September 1, 2017, the name of the instrument technician trade was changed to instrumentation and control technician.

Note 6: Effective September 1, 2017, the name of the insulator trade was changed to insulator (heat and frost).

Note 7: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the program before that day can continue in the program until August 31, 2023.

Note 8: In previous Statistical Profiles, the plumber trade data was divided by 'plumber & gasfitter B' and 'plumber' to distinguish between plumber apprentices who received their gasfitter B certification through their plumber apprenticeship program and those who had previously obtained their gasfitter B certification. Effective August 3, 2017, plumber will be reported as a single parent trade in accordance with the Plumber Trade Regulation.

TABLE 5

Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Trade/Occupation¹

TRADE AND BRANCH/ OCCUPATION	2012	2013	2014	2015	2016	2017	2016-17 % change
Agricultural Equipment Technician	34	26	30	20	33	33	0%
Appliance Service Technician	21	8	17	14	13	18	38%
Appliance Service Technician	18	6	11	8	11	16	45%
Commercial Appliance Service Technician	3	2	6	6	2	2	0%
Auto Body Technician	99	77	128	100	100	97	-3%
Auto Body Technician	13	19	35	49	42	55	31%
Prepper	4	1	10	4	3	3	0%
Refinisher	45	34	53	30	36	35	-3%
Repairer	37	23	30	17	19	4	-79%
Automotive Service Technician	472	428	452	485	443	401	-9%
Baker	37	30	32	44	36	40	11%
Boilermaker	66	68	60	71	80	71	-11%
Bricklayer	39	35	29	29	27	22	-19%
Cabinetmaker	63	34	39	48	30	23	-23%
Carpenter	575	512	446	435	368	377	2%
Communication Technician	73	57	22	10	8	15	88%
Concrete Finisher	20	18	12	19	24	17	-29%
Cook	206	187	295	306	217	206	-5%
Crane and Hoisting Equipment Operator	443	466	568	557	517	412	-20%
Boom Truck Operator	137	150	206	188	150	111	-26%
Mobile Crane Operator	124	108	149	172	279	207	-26%
Tower Crane Operator	1	3	14	11	14	15	7%
Wellhead Boom Truck Operator	181	205	199	186	74	79	7%
Electric Motor Systems Technician	13	5	11	8	7	8	14%
Electrician	1,485	1,363	1,509	1,545	1,641	1,648	0%
Elevator Constructor	44	43	43	20	24	32	33%
Floorcovering Installer	5	6	5	0	6	3	-50%
Gasfitter	86	91	118	90	115	141	23%
Gasfitter A	72	82	92	74	97	109	12%
Gasfitter B	14	9	26	16	18	32	78%
Glazier	55	36	54	30	32	31	-3%
Glazier	55	36	53	30	32	31	-3%
Auto Glass Technician (Note 1)	0	0	1	0	0	N/A	N/A
Hairstylist	597	400	567	528	538	540	0%
Heavy Equipment Technician	820	812	894	1,012	1,100	1,146	4%
Heavy Equipment Technician	569	523	532	611	715	753	5%
Heavy Duty Equipment Mechanic (Off Road)	111	135	148	161	159	155	-3%
Transport Trailer Mechanic	28	24	38	40	36	39	8%
Truck and Transport Mechanic	112	130	176	200	190	199	5%
Industrial Mechanic (Millwright) (Note 2)	274	244	238	284	423	443	5%
Instrumentation and Control Technician (Note 3)	243	198	258	291	323	332	3%
Insulator (Heat and Frost) (Note 4)	86	91	111	90	96	81	-16%
Ironworker	131	158	200	197	151	168	11%
Ironworker (Note 5)	18	19	26	17	14	25	79%

(continued)

TABLE 5 (continued)

Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Trade/Occupation¹

TRADE AND BRANCH/ OCCUPATION	2012	2013	2014	2015	2016	2017	2016-17 % change
Metal Building Systems Erector	8	12	13	16	25	14	-44%
Ironworker (Reinforcing)	34	37	61	48	32	27	-16%
Ironworker (Structural/ Ornamental)	71	90	100	116	80	102	28%
Landscape Horticulturist <i>(Note 6)</i>	22	20	24	21	17	25	47%
Lather (Interior Systems Mechanic)	22	9	9	10	18	13	-28%
Locksmith	5	7	7	4	10	13	30%
Machinist	97	81	86	87	129	112	-13%
Metal Fabricator (Fitter) <i>(Note 7)</i>	18	17	30	22	18	27	50%
Motorcycle Mechanic	44	26	25	35	34	23	-32%
Natural Gas Compression Technician	3	2	3	3	2	6	200%
Outdoor Power Equipment Technician	8	9	9	10	9	8	-11%
Power	4	8	1	5	2	4	100%
Recreational	4	1	8	5	7	4	-43%
Painter and Decorator	15	13	18	15	19	24	26%
Parts Technician	149	142	177	223	205	209	2%
Parts Technician	138	113	150	205	181	191	6%
Materials Technician	11	29	27	18	24	18	-25%
Plumber <i>(Note 8)</i>	594	464	497	446	409	420	3%
Powerline Technician	167	125	187	170	162	240	48%
Power System Electrician	51	70	97	88	96	45	-53%
Recreation Vehicle Service Technician	18	14	11	13	22	23	5%
Refrigeration and Air Conditioning Mechanic	86	104	106	131	122	121	-1%
Rig Technician	189	204	283	246	159	54	-66%
Roofer	25	22	38	39	28	38	36%
Sawfiler <i>(Note 9)</i>	2	1	N/A	N/A	N/A	N/A	N/A
Sawfiler	2	1	N/A	N/A	N/A	N/A	N/A
Circular Sawfiler	0	0	N/A	N/A	N/A	N/A	N/A
Sheet Metal Worker	171	112	164	130	90	96	7%
Sprinkler Systems Installer	46	52	27	26	43	37	-14%
Steamfitter-Pipefitter	533	509	751	675	822	844	3%
Tilesetter	5	8	3	2	2	1	-50%
Transport Refrigeration Technician	9	5	5	3	9	5	-44%
Water Well Driller	10	5	8	7	13	13	0%
Welder	945	983	1,442	1,636	1,437	1,301	-9%
Welder	936	957	1,410	1,624	1,430	1,296	-9%
Wire Processor	9	26	32	12	7	5	-29%
Total - Trades	9,221	8,397	10,145	10,275	10,227	10,003	-2%
Cathodic Protection Technician <i>(Note 10)</i>	N/A	3	123	108	56	39	-30%
Construction Craft Labourer	25	3	5	9	9	4	-56%
Field Heat Treatment Technician	11	16	12	16	10	7	-30%
Gas Utility Operator	8	13	26	16	20	20	0%
Industrial Construction Crew Supervisor	110	123	253	255	239	202	-15%

(continued)

TABLE 5 (continued)

Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Trade/Occupation¹

TRADE AND BRANCH/ OCCUPATION	2012	2013	2014	2015	2016	2017	2016-17 % change
Oil and Gas Transportation Services	0	0	0	0	0	2	N/A
Overhead Door Technician <i>(Note 11)</i>	N/A	N/A	N/A	1	0	6	N/A
Residential Construction Site Manager	0	0	0	0	1	2	100%
Slickline Services <i>(Note 12)</i>	N/A	0	0	0	0	0	N/A
Snubbing Services	5	5	3	1	2	1	-50%
Steel Detailer	0	0	0	0	0	0	N/A
Well Testing Services Supervisor	1	2	2	0	0	4	N/A
Total - Occupations	160	165	424	406	337	287	-15%
TOTAL	9,381	8,562	10,569	10,681	10,564	10,290	-3%

Source: Alberta Advanced Education

¹ Individuals issued more than one certificate in each year are counted here only once.

N/A = Not Applicable. Data does not exist.

Note 1: Effective January 1, 2015, the designation of auto glass technician as a branch of the glazier trade was rescinded. Apprentices registered in the program before that date could continue in the program until December 31, 2016.

Note 2: Effective September 1, 2017, the name of the millwright trade was changed to industrial mechanic (millwright).

Note 3: Effective September 1, 2017, the name of the instrument technician trade was changed to instrumentation and control technician.

Note 4: Effective September 1, 2017, the name of the insulator trade was changed to insulator (heat and frost).

Note 5: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the program before that day can continue in the program until August 31, 2023.

Note 6: Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

Note 7: Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

Note 8: In previous Statistical Profiles, the plumber trade data was divided by 'plumber & gasfitter B' and 'plumber' to distinguish between plumber apprentices who received their gasfitter B certification through their plumber apprenticeship program and those who had previously obtained their gasfitter B certification. Effective August 3, 2017, plumber will be reported as a single parent trade in accordance with the Plumber Trade Regulation.

Note 9: Effective July 1, 2013, the designation of the trade of sawfiler was rescinded.

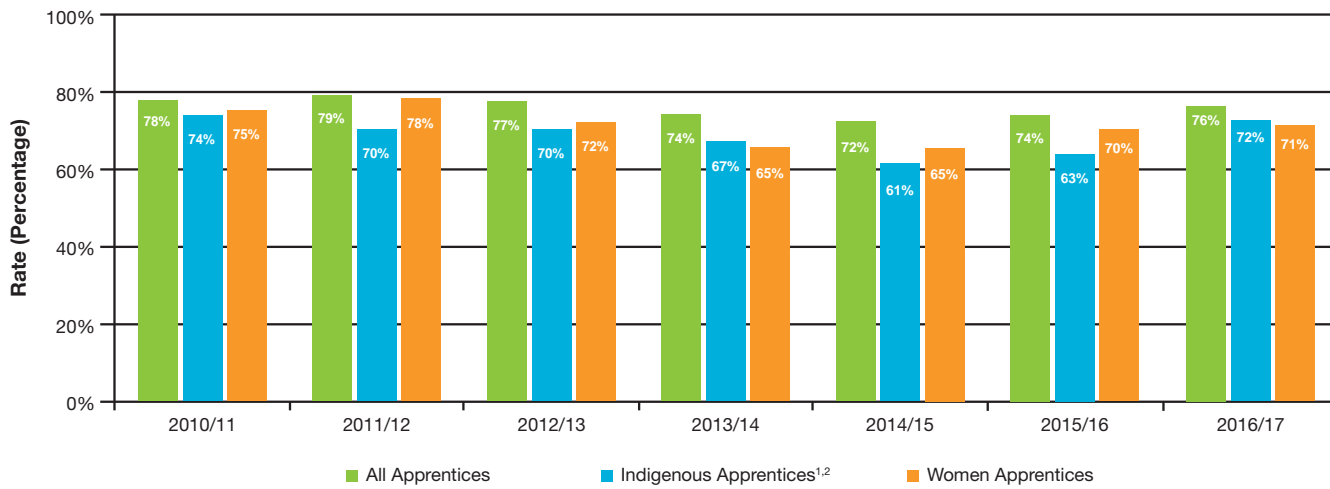
Note 10: Cathodic protection technician became a designated occupation on February 4, 2013.

Note 11: Overhead door technician became a designated occupation on January 1, 2015.

Note 12: Slickline services became a designated occupation on September 30, 2013.

CHART 5

Apprentice Completion Rate by Year



Source: Alberta Advanced Education

¹ In previous Statistical Profiles, Indigenous was reported as 'Aboriginal'. However, the data continues to include and reflect Status Indian/First Nations, Non-Status Indian/First Nations, Inuit and Metis.

² Apprentices choose whether or not to disclose their Indigenous heritage when registering. The total number of Indigenous apprentices reflected here indicates those who disclosed their Indigenous heritage. There may be additional apprentices with Indigenous heritage registered who did not disclose that information.

Notes

Year = July 1 to June 30

The cohort of apprentices that is followed are those who have completed all the requirements for their first period of apprenticeship training (including taking first period apprenticeship technical training, on-the-job training and period exams) and went on to complete their program within two years past the normally expected completion date. Apprentices who receive credit for first period technical training or challenge the first period are not included in the cohort.

The completion rate is based on trade programs that are 2, 3 and 4 years in length combined. One-year trades are excluded.

TABLE 6

Technical Training Attendance by Institution and School Year¹

INSTITUTION	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18 ¹
Delmar College of Hair Design <i>(Note 1)</i>	90	74	77	89	57	56
Grande Prairie Regional College	1,164	1,406	1,584	1,570	1,296	1,049
Keyano College	751	831	858	798	643	552
Lakeland College	1,133	1,306	1,438	1,397	1,053	881
Lethbridge College	858	989	1,048	1,035	922	834
MC College <i>(Note 1)</i>	52	62	81	79	73	49
Medicine Hat College	633	736	804	705	528	451
Northern Alberta Institute of Technology	11,907	12,922	14,064	14,404	12,933	10,269
Northern Lakes College	211	240	295	259	148	140
Olds College	358	417	434	399	336	235
Portage College	138	174	184	155	109	63
Red Deer College	2,484	2,941	3,462	3,462	2,881	2,192
Southern Alberta Institute of Technology	7,427	7,963	8,793	9,145	8,293	6,885
Other Training Providers <i>(Note 2)</i>	417	396	287	533	470	346
TOTAL	27,623	30,457	33,409	34,030	29,742	24,002

Source: Alberta Advanced Education

¹ These statistics cover the school year from August 1 to July 31 for each year represented, with the exception of the 2017/18 school year. The data for this year is the attendance as of the date of printing (March 2018).

Note 1: Delmar College and MC College (formerly Marvel College) provide technical training for hairstylists. The hairstylist trade has a two-year apprenticeship program.

Note 2: 'Other' training providers may not provide apprenticeship technical training every year. Other training providers for 2017/18 include:
Alberta Carpenters Training Centre - provides technical training for its carpenters
ATCO Electric - provides technical training for its powerline technician apprentices
Edmonton Pipe Trades Educational Trust - provides technical training for its plumbers, steamfitter-pipefitters and welders
Enform - (previously Petroleum Industry Training Service) provides training for the wellhead boom truck branch of the crane and hoisting equipment operator trade
FortisAlberta Inc. - (previously Aquila Networks Canada, Utilicorp Networks Canada and Trans Alta Utilities) provides technical training for its powerline technician apprentices
Operating Engineers Local 955 Apprenticeship and Education - (previously Alberta Operating Engineers Training Centre) provides technical training for its mobile crane and hoisting equipment operators.

TABLE 7

Total Number of Apprentices Registered by Trade and Period (or Year) of Technical Training, 2017¹

TRADE AND BRANCH	1st Period	2nd Period	3rd Period	4th Period	TT Completed (Note 1)	Total Apprentices
Agricultural Equipment Technician	64	25	30	24	18	161
Appliance Service Technician	41	13	7	N/A	12	73
Appliance Service Technician	37	11	7	N/A	11	66
Commercial Appliance Service Technician	4	2	N/A*	N/A	1	7
Auto Body Technician	182	204	130	79	41	636
Auto Body Technician	134	149	117	79	21	500
Prepper	10	N/A*	N/A	N/A	9	19
Refinisher	22	48	N/A	N/A	8	78
Repairer	16	7	13	N/A	3	39
Automotive Service Technician	1,019	680	553	524	242	3,018
Baker	46	37	18	N/A	82	183
Boilermaker	142	171	125	N/A	32	470
Bricklayer	43	54	46	N/A	15	158
Cabinetmaker	85	79	53	41	5	263
Carpenter	963	543	560	589	144	2,799
Communication Technician	33	7	21	23	11	95
Concrete Finisher	14	18	N/A*	N/A	11	43
Cook	315	163	202	N/A	195	875
Crane and Hoisting Equipment Operator	1,308	N/A*	330	N/A	254	1,892
Boom Truck Operator	564	N/A	N/A	N/A	50	614
Mobile Crane Operator	175	N/A*	330	N/A	81	586
Tower Crane Operator	41	N/A*	N/A	N/A	7	48
Wellhead Boom Truck Operator	528	N/A	N/A	N/A	116	644
Electric Motor Systems Technician	14	11	1	5	2	33
Electrician	2,054	2,266	2,553	2,821	627	10,321
Elevator Constructor	0	0	0	253	36	289
Floorcovering Installer	16	15	N/A	N/A	1	32
Gasfitter	150	98	187	N/A	51	486
Gasfitter A	90	73	187	N/A	47	397
Gasfitter B	60	25	N/A	N/A	4	89
Glazier	112	49	70	36	23	290
Hairstylist	859	344	N/A	N/A	1,038	2,241
Heavy Equipment Technician	1,318	692	1,100	674	430	4,214
Heavy Equipment Techniciac	904	522	769	674	322	3,191
Heavy Duty Equipment Mechanic (Off Road)	131	59	130	N/A	41	361
Transport Trailer Mechanic	79	N/A*	N/A	N/A	22	101
Truck and Transport Mechanic	204	111	201	N/A	45	561
Industrial Mechanic (Millwright) (Note 2)	437	292	309	382	134	1,554
Instrumentation and Control Technician (Note 3)	422	234	249	290	234	1,429
Insulator (Heat and Frost) (Note 4)	444	170	172	N/A	40	826
Ironworker	609	260	148	49	90	1,156
Ironworker (Note 5)	110	57	42	49	7	265
Metal Building Systems Erector	30	19	N/A	N/A	7	56
Ironworker (Reinforcing)	275	39	N/A	N/A	2	316
Ironworker (Structural/ Ornamental)	194	145	106	N/A	74	519

(continued)

TABLE 7 (continued)

Total Number of Apprentices Registered by Trade and Period (or Year) of Technical Training, 2017¹

TRADE AND BRANCH	1st Period	2nd Period	3rd Period	4th Period	TT Completed (Note 1)	Total Apprentices
Landscape Horticulturist	48	34	18	26	21	147
Lather (Interior Systems Mechanic)	43	19	32	N/A	4	98
Locksmith	68	37	22	0	0	127
Machinist	88	60	66	119	34	367
Metal Fabricator (Fitter)	23	29	21	N/A	3	76
Motorcycle Mechanic	38	27	30	36	17	148
Natural Gas Compression Technician	1	0	8	9	1	19
Outdoor Power Equipment Technician	23	21	17	N/A	0	61
Power	11	8	7	N/A	0	26
Recreational	12	13	10	N/A	0	35
Painter and Decorator	32	20	16	N/A	10	78
Parts Technician	285	240	214	N/A	54	793
Parts Technician	257	213	201	N/A	51	722
Materials Technician	28	27	13	N/A	3	71
Plumber (Note 6)	793	698	911	721	207	3,330
Powerline Technician	158	119	127	N/A*	124	528
Power System Electrician	22	19	67	51	38	197
Recreation Vehicle Service Technician	55	51	13	N/A	19	138
Refrigeration and Air Conditioning Mechanic	212	212	159	152	60	795
Rig Technician	137	123	485	N/A	78	823
Roofer	92	65	50	N/A*	13	220
Sheet Metal Worker	520	307	222	264	29	1,342
Sprinkler Systems Installer	90	73	83	N/A*	39	285
Steamfitter-Pipefitter	1,079	895	1,056	N/A	304	3,334
Tilesetter	6	0	N/A*	N/A	5	11
Transport Refrigeration Technician	12	4	7	N/A	6	29
Water Well Driller	6	19	N/A	N/A	1	26
Welder	1,374	796	1,453	N/A	479	4,102
Welder	1,351	796	1,453	N/A	472	4,072
Wire Processor	23	N/A*	N/A	N/A	7	30
Total	15,895	10,293	11,941	7,168	5,314	50,611

Source: Alberta Advanced Education

¹ These statistics are as of December 31, 2017.

N/A = Not all trades have four periods as part of the apprenticeship program. The N/As indicate where there is no period in that trade.

N/A* = The number of periods of an apprenticeship program does not always equal the number of periods of technical training required. N/A* indicates where there is a period in the apprenticeship program but no technical training is required in that period.

Note 1: 'TT Completed' refers to those apprentices who have completed, or who have been granted credit for, all technical training (TT) requirements in their apprenticeship program. Industry examination and/or work experience/on-the-job training requirements for the trade have yet to be successfully completed.

Note 2: Effective September 1, 2017, the name of the millwright trade was changed to industrial mechanic (millwright).

Note 3: Effective September 1, 2017, the name of the instrument technician trade was changed to instrumentation and control technician.

Note 4: Effective September 1, 2017, the name of the insulator trade was changed to insulator (heat and frost).

Note 5: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the program before that day can continue in the program until August 31, 2023.

Note 6: In previous Statistical Profiles, the plumber trade data was divided by 'plumber & gasfitter B' and 'plumber' to distinguish between plumber apprentices who received their gasfitter B certification through their plumber apprenticeship program and those who had previously obtained their gasfitter B certification. Effective August 3, 2017, plumber will be reported as a single parent trade in accordance with the Plumber Trade Regulation.

TABLE 8

Number of Apprentices Registered, Certified and Attending Technical Training by Apprenticeship and Industry Training Office¹, 2017²

OFFICE REGION	Total Apprentices Registered	New Apprentices Registered	Apprentices Certified	Technical Training Attendance ³
Bonnyville	985	255	206	474
Calgary	13,891	3,508	1,832	6,872
Edmonton	21,277	4,944	4,497	11,952
Fort McMurray	1,946	504	338	978
Grande Prairie	2,513	689	380	1,129
Hinton	1,190	318	208	596
Lethbridge	1,906	506	308	972
Medicine Hat	1,130	282	212	549
Peace River	645	161	85	282
Red Deer	3,515	1,005	763	1,954
Slave Lake	559	189	135	346
Vermilion	1,050	272	226	601
Total - Office Regions	50,607	12,633	9,190	26,705
Interprovincial - Training Only (Note 1)	N/A	N/A	N/A	388
Interprovincial/International - Training and Certification (Note 2)	4	4	0	1
Total - Other	4	4	0	389
TOTAL	50,611	12,637	9,190	27,094

(Note 3)

Source: Alberta Advanced Education

¹ See map on page v for Apprenticeship and Industry Training office regions.

² This table represents statistics covering the January to December 2017 calendar year. Technical training in Table 6 is reported as school year. For this table only, the technical training statistics cover the calendar year for comparability within this table.

³ Attendance reflects the number of technical training seats occupied.

Note 1: Alberta provides training for apprentices from other Canadian provinces and territories where the trade is designated but the jurisdictions are unable to provide technical training due to small apprentice registration numbers. Alberta does not issue these individuals a certificate. They are not counted in any of the tables or charts reflecting the number of registered Alberta apprentices.

Note 2: Alberta registers apprentices and provides technical training to people from jurisdictions where no apprenticeship program exists. Alberta issues a certificate on completion of the program.

Note 3: Not all apprentices attend technical training in any given year. The reasons for not attending may include:

- Apprentices do not normally attend technical training until they have had at least eight to 10 months of on-the-job training with their employer.
- Some apprentices are graduates of accredited post-secondary technical programs or have completed an apprenticeship program in another trade and have received credit for their technical training.
- Some have successfully completed all of the technical training and have only the required on-the-job training to complete before being eligible to be certified.
- Some prefer to obtain the study material (ILMs – individual learning modules) and learn at their own pace, and then challenge the industry exam.
- Some are in the Registered Apprenticeship Program (RAP) and attending high school and are not able to attend technical training.

TABLE 9

Number of Committee Meetings by Trade/Occupation and Year

TRADE/OCCUPATION	Provincial Apprenticeship Committees (Full, Sub and Special) and Occupational Committees (Notes 1 & 2)							Local Apprenticeship Committees (Note 3)							
	2012	2013	2014	2015	2016	2017	Total	2012	2013	2014	2015	2016	2017	Total	Number of LACs
Agricultural Equipment Technician	3	5	2	1	3	3	17								0
Appliance Service Technician	8	2	2	7	3	1	23	1	0	0	0	0	0	1	0
Auto Body Technician	5	3	3	9	8	3	31	0	2	2	0	0	1	5	2
Automotive Service Technician	9	0	4	3	10	8	34	3	4	3	6	4	7	27	7
Baker	7	2	3	4	3	1	20	0	2	1	1	3	2	9	2
Boilermaker	1	0	3	2	3	7	16								0
Bricklayer	3	2	2	5	2	1	15	2	2	1	3	3	2	13	2
Cabinetmaker	0	1	5	2	2	3	13	2	0	1	3	0	0	6	2
Carpenter	0	8	10	8	1	3	30	2	4	5	6	2	4	23	8
Communication Technician	5	4	4	4	1	2	20	1	1	2	2	2	2	10	2
Concrete Finisher	4	1	0	1	1	3	10								0
Cook	2	9	3	5	2	2	23	2	2	3	4	4	4	19	3
Crane and Hoisting Equipment Operator	5	2	5	5	4	6	27	2	3	3	0	0	1	9	4
Electric Motor Systems Technician	1	3	2	6	7	4	23	2	0	0	1			3	0
Electrician	12	5	9	4	9	3	42	4	5	2	6	6	8	31	9
Elevator Constructor	0	2	2	3	4	4	15								0
Floorcovering Installer	3	1	1	0	3	4	12								0
Gasfitter	0	3	7	12	8	12	42	0	0	1	1	3	0	5	2
Glazier	9	9	5	2	3	2	30	2	3	0	1	0	3	9	2
Hairstylist	3	2	4	3	5	4	21	4	2	5	8	6	7	32	8
Heavy Equipment Technician	8	6	7	8	4	10	43	7	4	6	7	4	8	36	8
Industrial Mechanic (Millwright) (Note 4)	5	6	2	4	8	6	31	2	1	3	2	3	0	11	3
Instrumentation and Control Technician (Note 5)	7	3	6	4	3	10	33	0	0	0	0	0	1	1	1
Insulator (Heat and Frost) (Note 6)	9	3	3	3	0	7	25								0
Ironworker (Note 7)	0	5	7	9	5	3	29								0
Landscape Horticulturist (Note 8)	1	2	2	2	3	7	17	1	0	1	0	1	2	5	1
Lather (Interior Systems Mechanic)	1	1	1	2	1	10	16								0
Locksmith	1	1	5	9	9	2	27	0	0	1	0	1	1	3	1
Machinist	8	1	16	3	2	6	36	2	3	0	2	3	1	11	2
Metal Fabricator (Fitter) (Note 9)	2	8	6	1	1	0	18								0
Motorcycle Mechanic	5	4	2	2	1	1	15	3	1	1	2	0	0	7	2
Natural Gas Compression Technician	1	0	1	1	0	0	3								0
Outdoor Power Equipment Technician	5	1	2	0	2	1	11	0	0						0
Painter and Decorator	2	1	1	1	9	6	20	1	3	2	1	1	0	8	0
Parts Technician	4	6	5	4	4	2	25	2	1	4	3	1	2	13	3
Plumber (Note 10)	1	2	1	5	12	12	33	1	1	2	3	3	3	13	4
Powerline Technician	7	6	8	8	2	1	32	2	1	2	1	2	2	10	2
Power System Electrician	3	7	3	7	4	1	25								0
Recreation Vehicle Service Technician	1	3	8	4	0	0	16	3	2	1	0	0	1	7	2
Refrigeration and Air Conditioning Mechanic	4	6	6	4	9	2	31	1	2	0	2	1	2	8	2
Rig Technician	4	2	2	3	2	2	15								0
Roofer	7	2	2	0	1	2	14								0

(continued)

TABLE 9 (continued)

Number of Committee Meetings by Trade/Occupation and Year

TRADE/OCCUPATION	Provincial Apprenticeship Committees (Full, Sub and Special) and Occupational Committees <small>(Notes 1 & 2)</small>							Local Apprenticeship Committees <small>(Note 3)</small>							
	2012	2013	2014	2015	2016	2017	Total	2012	2013	2014	2015	2016	2017	Total	Number of LACs
Sawfiler	0						0								
Sheet Metal Worker	2	3	2	4	12	13	36	2	3	2	1	3	0	11	4
Sprinkler Systems Installer	0	3	1	5	3	4	16	1	1	0	1	0	1	4	1
Steamfitter-Pipefitter	5	5	1	13	9	10	43	0	1	0	1	2	1	5	3
Tilesetter	3	6	1	0	2	0	12	0	0	0	0	0	0	0	0
Transport Refrigeration Technician	3	4	7	2	4	1	21								0
Water Well Driller	1	5	5	2	2	1	16								0
Welder	1	6	9	7	2	3	28	2	3	4	4	5	9	27	8
Total Meetings - Trades <small>(Note 11)</small>	174	169	190	195	191	186	1,105	57	57	58	72	63	75	382	100
Cathodic Protection Technician		1	1	2	2	1	7								
Construction Craft Labourer	1	0	1	2	2	0	6								
Field Heat Treatment Technician	2	2	1	0	1	1	7								
Gas Utility Operator	0	1	2	2	3	0	8								
Industrial Construction Crew Supervisor	2	2	0	3	1	3	11								
Oil and Gas Transportation Services <small>(Note 12)</small>															
Overhead Door Technician <small>(Note 11)</small>				9	2	1	12								
Petroleum Competency Program Steering Committee <small>(Note 12)</small>	0	0	0	0	0	0	0								
Residential Construction Site Manager	0	1	0	0	0	3	4								
Slickline Services <small>(Note 12)</small>															
Snubbing Services <small>(Note 12)</small>															
Steel Detailer	0	1	4	7	0	0	12								
Well Testing Services Supervisor <small>(Note 12)</small>															
Total - Occupations	5	8	9	25	11	9	67								

Source: Alberta Advanced Education

Note 1: There is one provincial apprenticeship committee for each designated trade and one occupational committee for each designated occupation. For the exception to this, see Note 12 below.

Note 2: The number of provincial apprenticeship committees and occupational committees meetings in this table includes general, sub-committee and special meetings. It does not include ballots for any of the committees.

Note 3: The number of local apprenticeship committees (LACs) varies by trade. The number of LACs for each trade as of December 31, 2017 is indicated in the 'Number of LACs' column. Some trades do not have any LACs. The number of LAC meetings reflected in the table for each trade adds together the meetings of all the LACs in the province for that trade.

■ Shaded cells indicate that a committee did not exist in that trade or occupation for all or part of the year. Designated occupations do not have local committees.

Note 4: Effective September 1, 2017, the name of the millwright trade was changed to industrial mechanic (millwright).

Note 5: Effective September 1, 2017, the name of the instrument technician trade was changed to instrumentation and control technician.

Note 6: Effective September 1, 2017, the name of the insulator trade was changed to insulator (heat and frost).

Note 7: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the program before that day can continue in the program until August 31, 2023.

Note 8: Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

Note 9: Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

Note 10: In previous Statistical Profiles, the plumber trade data was divided by 'plumber & gasfitter B' and 'plumber' to distinguish between plumber apprentices who received their gasfitter B certification through their plumber apprenticeship program and those who had previously obtained their gasfitter B certification. Effective August 3, 2017, plumber will be reported as a single parent trade in accordance with the Plumber Trade Regulation.

Note 11: A number of meetings of provincial apprenticeship committees (PACs) were held jointly with other PACs. These joint meetings are counted in the meetings for each PAC, but are only counted once in the totals. The number of joint meetings varies each year. The number of joint meetings in each year are as follows: 2012 - 7; 2013 - 3; 2014 - 8; 2015 - 3; 2016 - 10; 2017 - 11.

Note 12: As of 2010, the Petroleum Competency Program Steering Committee has served as the industry committee for the following designated occupations: oil and gas transportation services, slickline services, snubbing services and well testing services supervisor.

TABLE 10

Number of Participants in the Registered Apprenticeship Program (RAP) by Trade, 2017

TRADE AND BRANCH	High School	Full Time	Certified <i>(Note 1)</i>
Agricultural Equipment Technician	15	41	60
Appliance Service Technician	1	0	6
Appliance Service Technician	1	0	6
Commercial Appliance Service Technician	0	0	0
Auto Body Technician	20	66	104
Auto Body Technician	17	62	24
Prepper	1	0	0
Refinisher	1	2	45
Repairer	1	2	35
Automotive Service Technician	95	300	521
Baker	4	9	14
Boilermaker	1	0	1
Bricklayer	3	4	17
Cabinetmaker	11	13	55
Carpenter	74	189	311
Communication Technician	2	2	2
Concrete Finisher	1	5	5
Cook	34	78	93
Crane and Hoisting Equipment Operator	2	11	25
Boom Truck Operator	1	3	10
Mobile Crane Operator	1	7	14
Tower Crane Operator	0	1	1
Wellhead Boom Truck Operator	0	0	0
Electric Motor Systems Technician	1	0	0
Electrician	69	387	626
Elevator Constructor	0	0	0
Floorcovering Installer	5	6	3
Gasfitter	3	5	8
Gasfitter A	1	5	8
Gasfitter B	2	0	0
Glazier	3	11	9
Hairstylist	54	136	624
Heavy Equipment Technician	176	492	648
Heavy Equipment Techniciac	156	445	609
Heavy Duty Equipment Mechanic (Off Road)	8	17	6
Transport Trailer Mechanic	2	4	6
Truck and Transport Mechanic	10	26	27
Industrial Mechanic (Millwright) <i>(Note 2)</i>	29	79	150
Instrumentation and Control Technician <i>(Note 3)</i>	12	64	116
Insulator (Heat and Frost) <i>(Note 4)</i>	0	3	2
Ironworker	4	12	3
Ironworker <i>(Note 5)</i>	1	8	1
Metal Building Systems Erector	1	0	1
Ironworker (Reinforcing)	0	1	0
Ironworker (Structural/Ornamental)	2	3	1
Landscape Horticulturist	8	5	8
Lather (Interior Systems Mechanic)	3	24	1
Locksmith	0	1	4

(continued)

TABLE 10 (continued)

Number of Participants in the Registered Apprenticeship Program (RAP) by Trade, 2017

TRADE AND BRANCH	High School	Full Time	Certified <i>(Note 1)</i>
Machinist	13	22	64
Metal Fabricator (Fitter)	0	2	8
Motorcycle Mechanic	5	11	34
Natural Gas Compression Technician	0	1	0
Outdoor Power Equipment Technician	5	10	6
Power	3	3	2
Recreational	2	7	4
Painter and Decorator	1	1	6
Parts Technician	8	41	87
Parts Technician	8	39	87
Materials Technician	0	2	0
Plumber <i>(Note 6)</i>	33	111	182
Powerline Technician	8	19	25
Power System Electrician	0	0	0
Recreation Vehicle Service Technician	2	8	7
Refrigeration and Air Conditioning Mechanic	6	19	22
Rig Technician	0	0	0
Roofer	3	2	4
Sheet Metal Worker	15	37	38
Sprinkler Systems Installer	2	5	11
Steamfitter-Pipefitter	13	27	61
Tilesetter	1	2	3
Transport Refrigeration Technician	0	0	4
Water Well Driller	2	1	5
Welder	90	267	1059
Welder	90	266	1059
Wire Processor	0	1	0
Total	837	2,529	5,042

Source: Alberta Advanced Education

High School = RAP participants currently in high school.

Full Time = RAP participants who have completed high school and are now full time apprentices.

Certified = Apprentices who began in RAP, have completed their apprenticeship program and are now certified tradespeople.

Note 1: Total number of RAP participants certified since inception of program (1992).

Note 2: Effective September 1, 2017, the name of the millwright trade was changed to industrial mechanic (millwright).

Note 3: Effective September 1, 2017, the name of the instrument technician trade was changed to instrumentation and control technician.

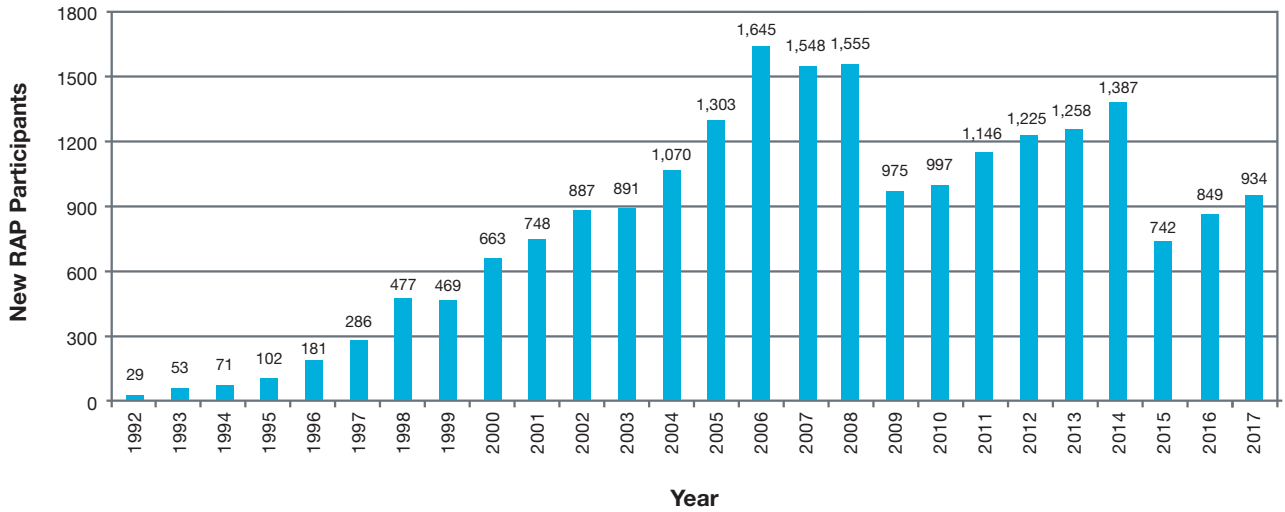
Note 4: Effective September 1, 2017, the name of the insulator trade was changed to insulator (heat and frost).

Note 5: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the program before that day can continue in the program until August 31, 2023.

Note 6: In previous Statistical Profiles, the plumber trade data was divided by 'plumber & gasfitter B' and 'plumber' to distinguish between plumber apprentices who received their gasfitter B certification through their plumber apprenticeship program and those who had previously obtained their gasfitter B certification. Effective August 3, 2017, plumber will be reported as a single parent trade in accordance with the Plumber Trade Regulation.

CHART 6

Number of New Registrants in the Registered Apprenticeship Program (RAP) by Year¹

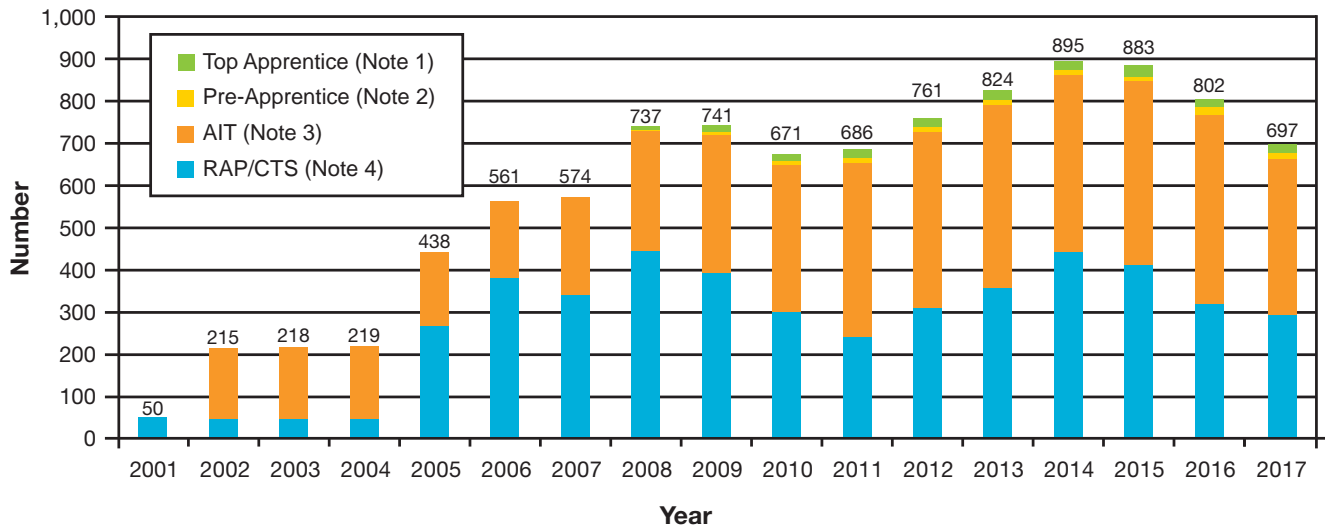


Source: Alberta Advanced Education

¹ This graph represents statistics covering calendar years (January to December).

CHART 7

Total Number of Individuals Awarded Scholarships by Year



Source: Alberta Advanced Education

- Note 1:** There are currently 22 Top Apprentice Scholarships of \$1,500 available each year. The first year the scholarships were awarded was 2008. Top Apprentice Scholarships are awarded to apprentices who achieved both a very high academic standing in their technical training.
- Note 2:** There are currently 11 Pre-Apprentice Scholarships of \$1,000 available each year. The first year the scholarships were awarded was 2008. Pre-Apprenticeship Scholarships are awarded to individuals who have completed pre-apprentice training and have since become a registered apprentice. Recipients are selected based on their marks.
- Note 3:** There are a minimum of 357 Apprenticeship and Industry Training (AIT) Scholarships of \$1,000 available each year. The number varies each year based on the value of the endowment fund. The first year the scholarships were awarded was 2002. AIT Scholarships are awarded to registered apprentices who are continuing in, and working toward, completing their apprenticeship program. Recipients are selected based on their marks.
- Note 4:** The Registered Apprenticeship Program/Career and Technology Studies Apprenticeship Pathways (RAP/CTS) Scholarships are \$1,000 each. For the years 2001 to 2004, there were 50 RAP/CTS scholarships available. Since 2005, 500 RAP/CTS Scholarships are available each year. RAP/CTS Scholarships are awarded to individuals who have participated in RAP or in CTS apprenticeship pathways in high school.

For more information on scholarships, go to: tradesecrets.alberta.ca

TABLE 11

Number of Apprentices Registered by Trade - Total, Indigenous¹ and Women, 2017²

TRADE AND BRANCH	Total Apprentices Registered	Indigenous Apprentices Registered	Women Apprentices Registered
Agricultural Equipment Technician	161	4	0
Appliance Service Technician	73	0	1
Appliance Service Technician	66	0	1
Commercial Appliance Service Technician	7	0	0
Auto Body Technician	636	20	54
Auto Body Technician	500	17	40
Prepper	19	1	5
Refinisher	78	1	9
Repairer	39	1	0
Automotive Service Technician	3,018	121	110
Baker	183	9	146
Boilermaker	470	41	29
Bricklayer	158	5	4
Cabinetmaker	263	8	43
Carpenter	2,799	232	161
Communication Technician	95	3	3
Concrete Finisher	43	4	0
Cook	875	54	309
Crane and Hoisting Equipment Operator	1,892	73	34
Boom Truck Operator	614	32	11
Mobile Crane Operator	586	26	14
Tower Crane Operator	48	2	1
Wellhead Boom Truck Operator	644	13	8
Electric Motor Systems Technician	33	0	1
Electrician	10,321	399	576
Elevator Constructor	289	5	5
Floorcovering Installer	32	0	0
Gasfitter	486	23	23
Gasfitter A	397	18	21
Gasfitter B	89	5	2
Glazier	290	12	10
Hairstylist	2,241	142	2,017
Heavy Equipment Technician	4,214	200	104
Heavy Equipment Techniciac	3,191	158	86
Heavy Duty Equipment Mechanic (Off Road)	361	22	10
Transport Trailer Mechanic	101	1	2
Truck and Transport Mechanic	561	19	6
Industrial Mechanic (Millwright) <i>(Note 2)</i>	1,554	102	63
Instrumentation and Control Technician <i>(Note 3)</i>	1,429	60	70
Insulator (Heat and Frost) <i>(Note 4)</i>	826	56	122
Ironworker	1,156	184	68
Ironworker <i>(Note 5)</i>	265	52	24
Metal Building Systems Erector	56	0	2
Ironworker (Reinforcing)	316	78	12
Ironworker (Structural/Ornamental)	519	54	30
Landscape Horticulturist	147	6	54
Lather (Interior Systems Mechanic)	98	3	4

(continued)

TABLE 11 (continued)

Number of Apprentices Registered by Trade - Total, Indigenous¹ and Women, 2017²

TRADE AND BRANCH	Total Apprentices Registered	Indigenous Apprentices Registered	Women Apprentices Registered
Locksmith	127	2	6
Machinist	367	12	10
Metal Fabricator (Fitter)	76	1	2
Motorcycle Mechanic	148	8	8
Natural Gas Compression Technician	19	1	0
Outdoor Power Equipment Technician	61	5	2
Power	26	1	2
Recreational	35	4	0
Painter and Decorator	78	1	16
Parts Technician	793	34	321
Parts Technician	722	31	292
Materials Technician	71	3	29
Plumber <i>(Note 6)</i>	3,330	174	126
Powerline Technician	528	52	5
Power System Electrician	197	6	4
Recreation Vehicle Service Technician	138	4	9
Refrigeration and Air Conditioning Mechanic	795	27	16
Rig Technician	823	29	2
Roofer	220	21	6
Sheet Metal Worker	1,342	57	56
Sprinkler Systems Installer	285	9	3
Steamfitter-Pipefitter	3,334	197	209
Tilesetter	11	0	2
Transport Refrigeration Technician	29	1	0
Water Well Driller	26	2	0
Welder	4,102	264	351
Welder	4,072	264	349
Wire Processor	30	0	2
Total	50,611	2,673	5,165

Source: Alberta Advanced Education

(Note 1)

¹ In the previous Statistical Profiles, Indigenous heritage was reported as 'Aboriginal' heritage. However, the data continues to include and reflect Status Indian/First Nations, Non-Status Indian/First Nations, Inuit and Metis.

² Total number of apprentices registered as of December 31. Apprentices may be registered in more than one trade or branch of a trade within the same year, but are counted here only once.

Note 1: Apprentices choose whether or not to disclose their Indigenous heritage when registering. The total number of Indigenous apprentices reflected here indicates those who disclosed their Indigenous heritage. There may be additional apprentices with Indigenous heritage registered who did not disclose that information.

Note 2: Effective September 1, 2017, the name of the millwright trade was changed to industrial mechanic (millwright).

Note 3: Effective September 1, 2017, the name of the instrument technician trade was changed to instrumentation and control technician.

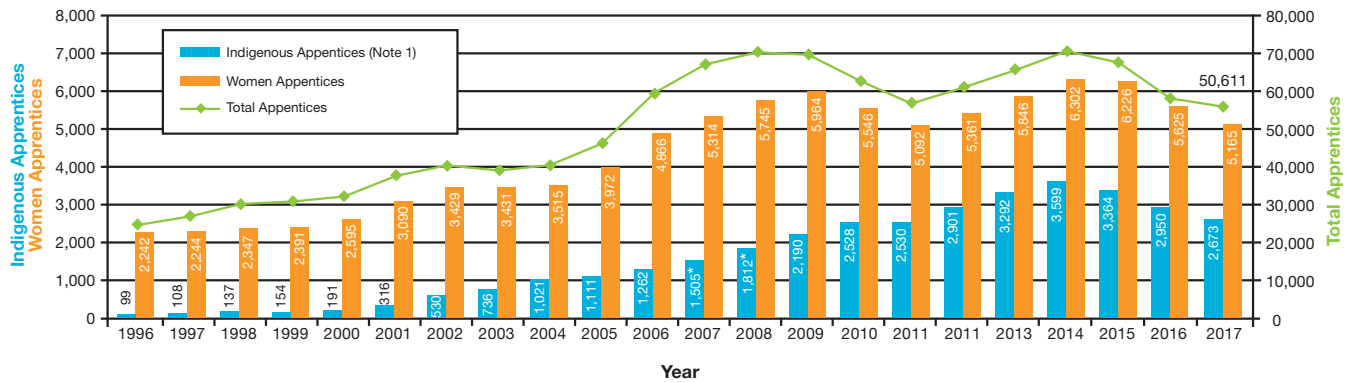
Note 4: Effective September 1, 2017, the name of the insulator trade was changed to insulator (heat and frost).

Note 5: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the program before that day can continue in the program until August 31, 2023.

Note 6: In previous Statistical Profiles, the plumber trade data was divided by 'plumber & gasfitter B' and 'plumber' to distinguish between plumber apprentices who received their gasfitter B certification through their plumber apprenticeship program and those who had previously obtained their gasfitter B certification. Effective August 3, 2017, plumber will be reported as a single parent trade in accordance with the Plumber Trade Regulation.

CHART 8

Total, Women and Indigenous¹ Apprentices Registered by Year



Source: Alberta Advanced Education

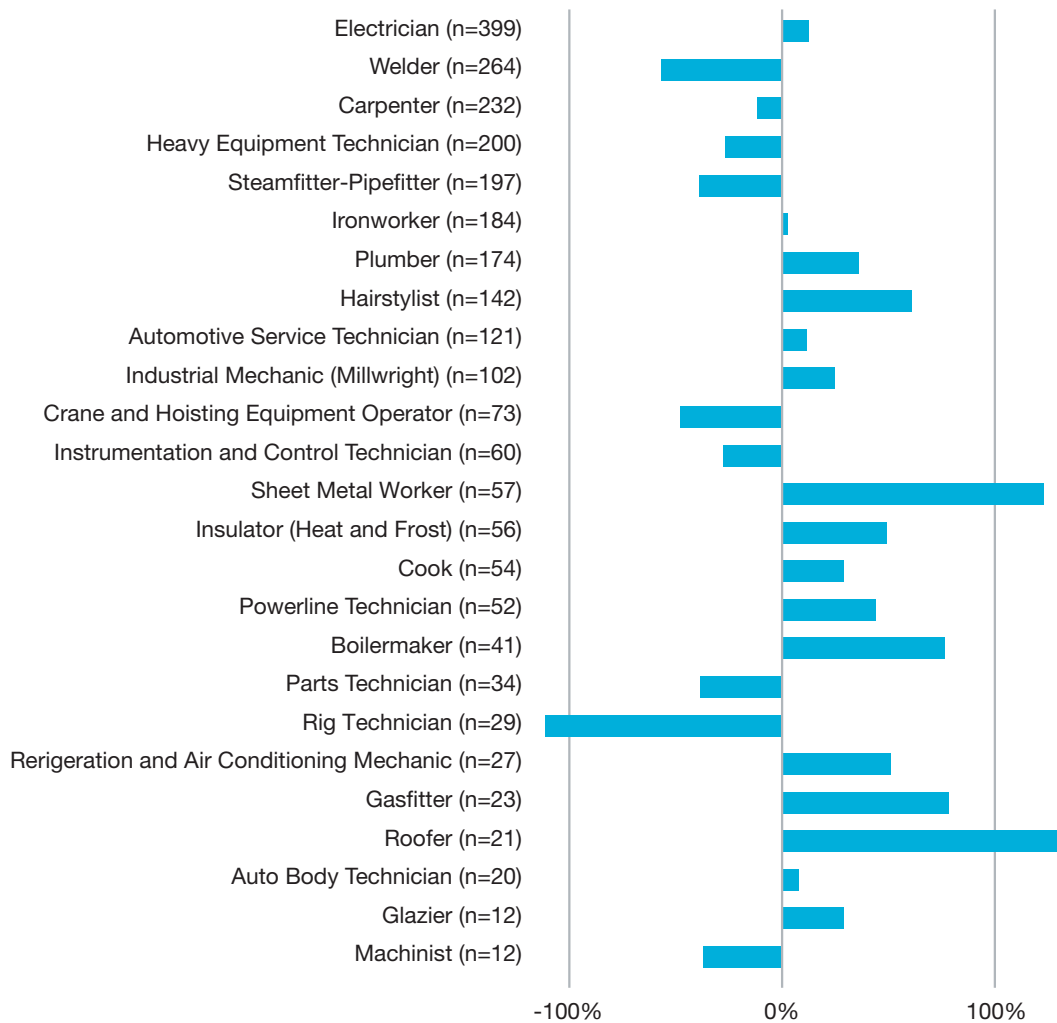
¹ In previous Statistical Profiles, Indigenous was reported as 'Aboriginal'. However, the data continues to include and reflect Status Indian/First Nations, Non-Status Indian/First Nations, Inuit and Metis.

Note 1: Apprentices choose whether or not to disclose their Indigenous heritage when registering. The total number of Indigenous apprentices reflected here indicates those who disclosed their Indigenous heritage. There may be additional apprentices with Indigenous heritage registered who did not disclose that information.

* In 2007 and 2008, the statistical methodology for the Indigenous apprentice number changed, therefore, the numbers in those two years cannot be compared to those of previous or future years.

CHART 9

Per Cent Change of Indigenous¹ Apprentices Registered² by Trade Between 2012 and 2017



Source: Alberta Advanced Education

¹ In previous Statistical Profiles, Indigenous was reported as 'Aboriginal'. However, the data continues to include and reflect Status Indian/First Nations, Non-Status Indian/First Nations, Inuit and Metis.

² Apprentices choose whether or not to disclose their Indigenous heritage when registering. The total number of Indigenous apprentices reflected here indicates those who disclosed their Indigenous heritage. There may be additional apprentices with Indigenous heritage registered who did not disclose that information.

Notes:

The 25 of 49 trades represented in the chart are those in which there were the highest number of Indigenous apprentices registered as of December 31, 2017. The list of trades is rank ordered with the highest to lowest number of Indigenous apprentices registered.

The 'n' provided is the number of Indigenous apprentices registered in the given trade as of December 31, 2017.

Due to small registration numbers in some trades, large percentage changes may occur.

CHART 10

Total Number of Women Apprentices Registered by Year¹



Source: Alberta Advanced Education

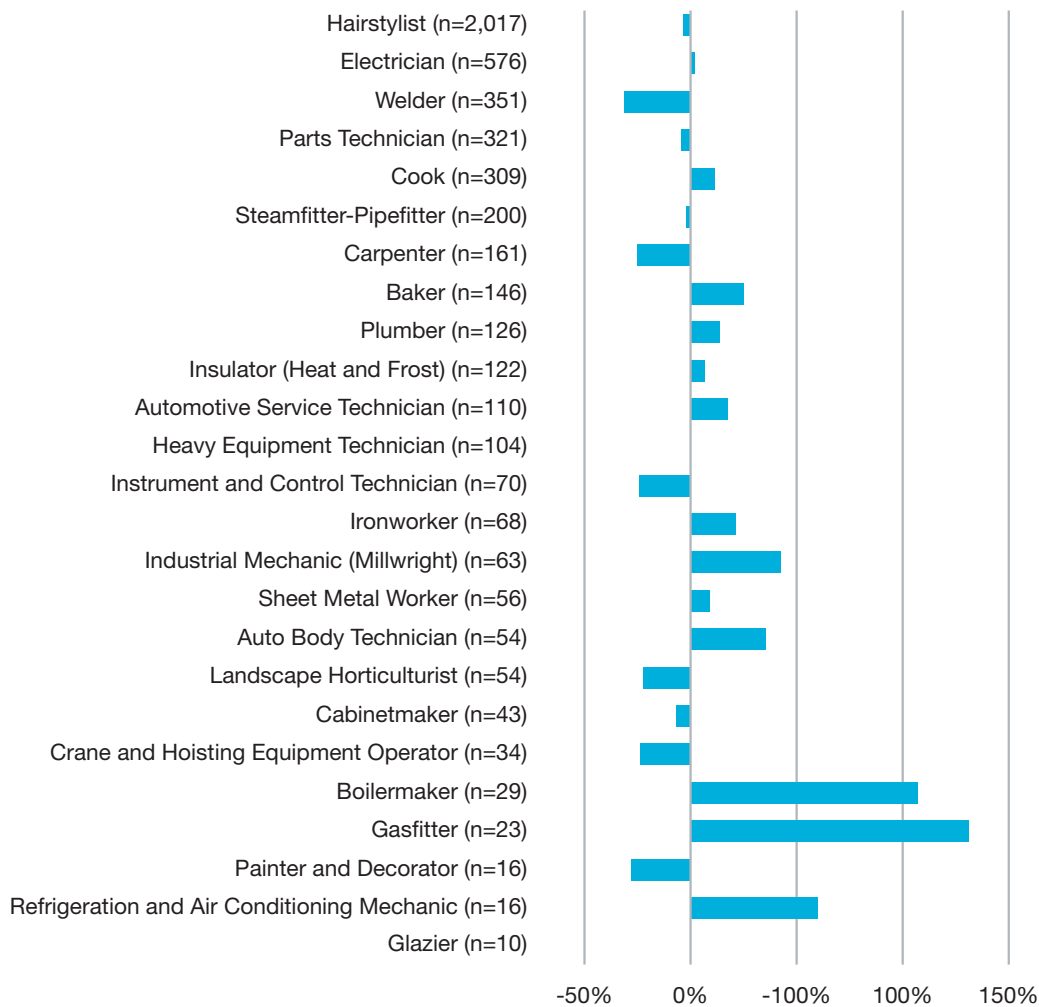
¹ This graph represents statistics covering a series of calendar years (January to December).

Traditional Trades = Trades that are gender-biased toward women. They are trades in which women have traditionally made up a large proportion of the total apprentices registered. These trades are: baker, cook, hairstylist, landscape horticulturist.

Non-Traditional Trades = All trades other than the four 'Traditional Trades'.

CHART 11

Per Cent Change of Women Apprentices Registered by Trade Between 2012 and 2017



Source: Alberta Advanced Education

Notes:

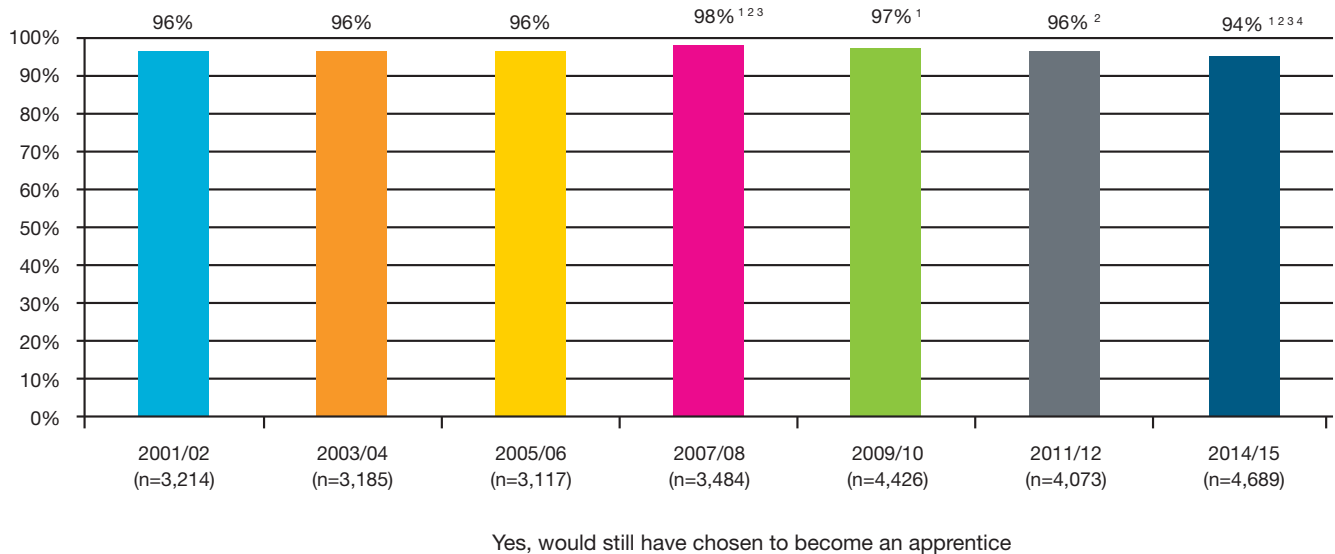
The 25 of 49 trades represented in the chart are those in which there were the highest number of women apprentices registered as of December 31, 2017. The list of trades is rank ordered with the highest to lowest number of women apprentices registered.

The 'n' provided is the number of women apprentices registered in the given trade as of December 31, 2017.

Due to small registration numbers in some trades, large percentage changes may occur.

CHART 12

Apprentice Graduate Satisfaction with Apprenticeship System



Source: Alberta Advanced Education, surveys of graduates of apprenticeship and industry training

Survey Question #F6: In retrospect, based on your experience with the Alberta apprenticeship program, would you still have chosen to become an apprentice?

¹ Indicates a significant change in response at a .05 level of significance compared to the previous survey year.

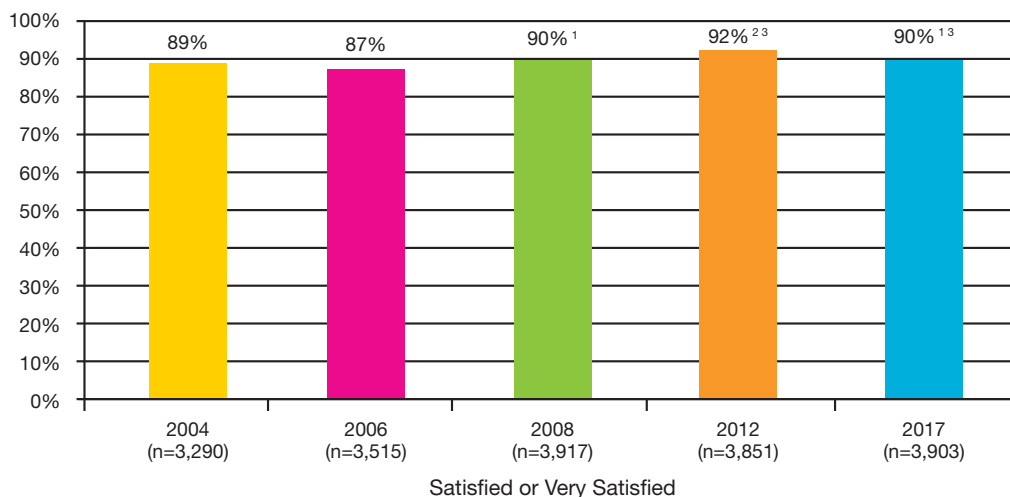
² Indicates a significant change in response at a .05 level of significance compared to two surveys previous.

³ Indicates a significant change in response at a .05 level of significance compared to three surveys previous.

⁴ Indicates a significant change in response at a .05 level of significance compared to four surveys previous.

CHART 13

Employer Graduate Satisfaction with Apprenticeship System



Source: Alberta Advanced Education, surveys of employer satisfaction with apprenticeship training and skilled tradespeople

Survey Question #45: Overall, how satisfied are you with the apprenticeship and trade certification system in Alberta?

¹ Indicates a significant change in response at a .05 level of confidence compared to the previous survey year.

² Indicates a significant change in response at a .05 level of confidence compared to two surveys previous.

³ Indicates a significant change in response at a .05 level of confidence compared to three surveys previous.

