

**Responses to Questions Raised
Standing Committee on Public Accounts
Ministry of Advanced Education
April 13, 2021**

Ms. Pancholi: I'm going to go back around the issues of international students. First, let me begin with – I believe the deputy, when he was making his opening remarks, remarked upon the fact that it was a 5.8 per cent increase in students enrolled in PSIs in the 2018/19 year, if I'm correct. Maybe it was the 2019/20. But I'm wondering if you can tell me how many students that actually means and how many of that increase in students is accounted for by international students? (PA-439)

Response

- The total number of learners in publicly funded post-secondary institutions rose about two per cent from 2017/18 to 2018/19 (approximately +5,400) and then fell about 1.5 per cent from 2018/19 to 2019/20 (approximately -4,100).
- International students make up about 11 per cent of the system total for 2019/20, an approximate increase of 3,000 students from 2018/19.

Ms. Renaud: According to public information on the website, actually, “every publicly funded post-secondary institution in Alberta has a Disability Services Office”. I didn't see any mention of that, any metrics whatsoever, in the 2019-20 annual report. I'm wondering if ministry officials could confirm that this is indeed correct, that every publicly funded post-secondary institution in Alberta has a disability services office (PA-440)

Response

- Each of the 26 publicly funded post-secondary institutions has a disability service office and/or staff within their student services offices that assist students with disabilities and students who have accessibility issues.
- The Disabilities Grant is a funding strategy to enhance institutional capacity to provide timely services, supports, and accommodations for students with disabilities seeking assistance so that they may seamlessly and successfully fully participate in their programs of study.
 - Post-secondary institutions must adhere to the provisions laid out by the Alberta Human Rights and Citizenship Commission in the *Duty to Accommodate Students with Disabilities in Post-secondary Educational Institutions*.
 - This document includes a number of specific obligations with the goal of ensuring that students with disabilities can fully participate in all aspects of their educational experience.
 - Disability grant funding enhances institutional capacity to provide services, support, and accommodations for students with disabilities in adherence to these obligations.
- All post-secondary institutions adhere to the provisions set out in both the act and the *Duty to Accommodate* interpretive bulletin by:
 - identifying accommodation policies for students with disabilities;
 - ensuring that staff and students have a working knowledge of their accommodation policy; and
 - responding in a timely manner to requests for accommodation.
- The goal of accommodating students with disabilities is to ensure full participation in all aspects of their educational experience through:

- accessible facilities;
- flexible course delivery formats;
- individual services (for example, interpreters and note takers);
- assistive technologies (hardware and software); and
- flexible formats for exams and other methods of student evaluation.

Ms. Renaud: On page 73 if I could just draw your attention to lines 2.4 and 5.2 and it looks like, with both of these items, that there was a significant amount unexpended. Now, when I look at the notes to financial statements, it describes sort of the activities that go on in these lines, and both of these lines mention Albertans with disabilities. I am wondering if you don't have a list of what those activities are, if you would agree to table that for information. (PA-442)

Response (2.4)

- In 2019/20, \$11,202,399 was expended under 2.4 for disabilities funding supports for students.
- There were no unspent funds from the Support for Students with Disabilities Grant in 2019/20.
- \$2 million in this line has been shifted from Advanced Education to Community and Social Services to support education opportunities for people with developmental disabilities through Inclusion Alberta.

Ms. Renaud: I'm wondering if it would be possible to also get some data around the number of disabled students in each of those PSIs and what is the total investment for that particular institution as there's no information in the annual report where we can get any of that insight? (PA-442)

Response

- The table below provides data on learners with disabilities at each of Alberta's post-secondary institutions.

2019-2020		
Institution	Funding Amounts	Headcounts
Alberta University of the Arts	\$167,000	74
Ambrose University	\$39,750	--
Athabasca University	\$374,600	6252
Banff Centre for Arts and Creativity	\$10,624	84
Bow Valley College	\$1,100,207	720
Burman University	\$18,000	38
Concordia University of Edmonton	\$87,000	213
Grande Prairie Regional College	\$190,051	240
MacEwan University	\$873,451	1110
Keyano College	\$154,907	116
Lakeland College	\$181,657	218
Lethbridge College	\$258,180	472
Medicine Hat College	\$290,940	419

Mount Royal University	\$817,740	1281
NAIT	\$1,355,769	1002
NorQuest College	\$1,560,865	713
Northern Lakes College	\$32,760	57
Olds College	\$237,998	129
Portage College	\$181,345	114
Red Deer College	\$407,988	471
St. Mary's University	\$42,750	163
SAIT	\$899,000	1298
The King's University	\$30,000	81
University of Alberta	\$755,787	1695
University of Calgary	\$858,325	1892
University of Lethbridge	\$275,705	661

Ms. Lovely: How did the ministry measure the needs of each program to determine the distribution of the \$650,000 of funding? What performance metrics were put in place to ensure that the Mitacs Globalink program is effective and what is the department overall role in supporting this program? (PA-445)

Response

- Of the \$650,000, \$250,000 was awarded to Mitacs as part of an existing agreement with the organization.
 - Mitacs delivers the Globalink Research Internships (GRI) program for Advanced Education, which provides the opportunity for Alberta universities to access at least 50 top international undergraduate students each year for short-term research projects.
 - In 2019/20, the GRI program attracted 63 Globalink research interns.
- The remaining funding went to the Campus Alberta Grant for International Learning program.
 - This grant program was established in 2009 and has supported innovative education abroad initiatives that created international opportunities for Alberta students in all areas of study.
 - Each year, the program funded 500 students, and each year the program was oversubscribed.
- Regarding Mitacs Globalink, the department's overall role in supporting this program is at a contract management level.
- Mitacs has a proven track record in supporting research and innovation, a broad network of partners, and a unique ability to leverage federal and industry funding in providing high-quality research internships and training opportunities.
- As for performance metrics, Advanced Education has identified priority areas for internships, distribution targets for participating countries, and a minimum recruitment number for research interns.
- Mitacs is required to provide annual progress reports to Advanced Education to report on these metrics and the impact of the program.

Ms. Lovely: You mentioned that part of the development of a new international strategy Advanced Education was currently doing a review of all international grant programs in

the province. How has the department determined the parameters of this review and how have they ensured that the review will meet required targets and be done efficiently? (PA-445)

Response

- The parameters for the international grant program review stem from the new International Education Strategy and its identified priorities.
- The review was conducted by an internal cross-ministry working group and the work was guided by strategic priorities, including:
 - Global Talent Attraction – Alberta will attract talented international students to Alberta’s post-secondary institutions and communities by aligning talent attraction with Alberta’s labour market needs and research and innovation priorities; and
 - International Skills needed to Succeed – Alberta will equip learners with the international skills and competencies they need to succeed in the global economy.
- The goal of the of the international grant program review and the working group was to better align grant programs with these priorities, while also achieving the following objectives:
 - Increase awareness of and access to education abroad opportunities.
 - Increase number of students that participate in education abroad programs.
 - Provide Alberta students with the opportunity to develop international skills and competencies.
 - Align study abroad programs with priority markets and sectors to advance provincial priorities for research, economic growth, and diplomatic partnerships.
 - Adhere to Alberta government guidelines around red-tape reduction
- COVID-19 interrupted the work being done to deliver on the international grant program review, but work is once again underway to implement programs that align with provincial priorities and address these objectives.

Ms. Pancholi: Can the ministry table a value-for-money analysis on this contract with McKinsey? For context, that \$3.7 million on the McKinsey report is more than the \$2.9 million that was allocated by the ministry for Women Building Futures in 2019/20. (PA-444)

Response

- The MacKinnon Panel, while examining Alberta’s economic and fiscal situation, recommended that Alberta’s post-secondary system develop a clear direction for the future, with stakeholder (including industry) engagement.
- For the size of Alberta’s post-secondary system and amount of research, analysis, and engagement needed to thoughtfully review a complex and highly valued post-secondary system, the government opted for an initiative design that was a cost-effective blend. The process was led by the Minister and supported by a ministry cross-functional team, and benefited from supplementary vendor assistance to conduct the diagnostic, engagement, and initiative project management.
- Given the magnitude of the scope and challenge, Cabinet decided it would be worthwhile to proceed with a request for proposals to seek a vendor with global experience suitable to conduct the system review and innovative and intensive engagement process, and to develop the 10-year Alberta 2030 strategy within an ambitious timeline.
- The review called for:

- comparisons to selected global, national, and sub-national post-secondary systems, trends and outcomes;
 - an assessment of the governance structure of Alberta's current post-secondary system;
 - an assessment of how the system is meeting current and future needs and how it may provide the best value for public investment; and
 - development of a vision for the future, including a strategy and roadmap to 2030, that supports lifelong learning for all Albertans
- Five proposals were submitted, with McKinsey and Company Canada receiving the highest score against the established evaluation criteria.
 - This process conducted the broadest advanced education engagement in over 15 years, and it introduced proven practices in leading change and bringing in diverse perspectives to solve complex challenges, including through inclusion of an innovative Guiding Coalition to provide direction to the project and bring diverse perspectives to the issues and opportunities.
 - Stakeholders have continued to provide input, and the ministry continued to analyze the options put forward by McKinsey, resulting in the made-in-Alberta 2030 strategy released on April 29, 2021.
 - The 10-year strategy defines a vision and goals and lays out flagship initiatives. Implementation will roll out in a multi-phased approach.
 - The funding for Women Building Futures (WBF) is a significant targeted investment, and the amount of funding noted is part of a \$10 million commitment over four years.
 - The WBF model provides wrap-around services, such as raising awareness, career planning, workplace essential skills, childcare, and safety training.
 - Approximately 2,000 women have participated in WBF pre-apprenticeship training programs over the past 20 years.
 - As evidenced by the new vision and array of flagship initiatives shared in Alberta 2030, including a shift over time to offering 100 per cent work-integrated learning to all Alberta post-secondary students, there will be significant additional resources (including through federal funding) leveraged toward priorities needed to improve Alberta's outcomes.
 - In addition, the new system advisory council and sector co-ordinating councils will provide the much-needed mechanisms to accelerate implementation of strategic and collaborative initiatives province-wide.

Ms. Renaud: On page 73 if I could just draw your attention to lines 2.4 and 5.2 and it looks like, with both of these items, that there was a significant amount unexpended. Now, when I look at the notes to financial statements, it describes sort of the activities that go on in these lines, and both of these lines mention Albertans with disabilities. I am wondering if you don't have a list of what those activities are, if you would agree to table that for information. (PA-442)

Response (5.2)

- The Foundational Learning Supports program budget for 2020/21 was \$93,756,000. This budget was not fully utilized due to the impact of COVID-19 on intake assessments by the training providers, class sizes, and learner readiness to undertake the sudden change to online training.
- Approximately 8,550 adult Albertans received financial support to pursue foundational learning in 2020/21. This number is 18 per cent less than the number of Albertans who accessed funding in the previous year. The decline is predominately due to COVID-19 and its impact on learner enrolments and training access.

- While the majority of foundational learning training providers responded quickly to the public health order by moving from classroom training to alternate delivery formats, there were still challenges with respect to access.
- A few training providers delivering integrated training programs scheduled to start in March and April did not have the time to transition the curriculum to alternate delivery methods, so they made the decision to postpone the training to a later date.
- In addition, a small number of First Nations Colleges and Indigenous training providers did not make the transition to alternate delivery methods. Learners in these communities did not have the capacity to continue training online. Lack of technology and internet access and personal learning styles contributed to the decision to suspend programming.
- Training providers delivering integrated training programs that include work experience or technical training components with delivery partners made contingency plans to ensure learners successfully completed training. Opportunities for work experience placements were not available as normal, which impacted the successful completion of the programs within the planned timelines.
- Delays and unavailability of training components, combined with the economic situation in Alberta, had a significant impact on the achievement of employment outcomes for these programs within expected timelines.

Mr. Neudorf: Thank you again, for that answer. Again, just for clarity for the committee, in this transition period from the previous year, did you say that we saw an increase in students accessing this? (PA-436)

Mr. Neudorf: Can you, again, provide for the committee roughly across the province how many students we're talking about? Like, 2.4 per cent, 2.5 per cent: what is the actual number of students that would have been eligible?

Response

- Correction: The 2.4 per cent to 2.5 per cent increase was not in the number of students who met the eligibility criteria.
 - This was actually the increase in the number of students who received the High School Apprenticeship – Bright Future Scholarships (one of the two scholarships included in the program) from the first year of the program to the second year.
- In 2019 (inaugural year), we gave away 1,414 scholarships, with 34 (2.4 per cent) of them being Bright Future scholarships.
 - For this year only, the eligible graduation year was increased to include current and up to five years of previous graduates to ensure all eligible students would receive the scholarship and none would be overlooked during the transition between the two programs.
- In 2020, we gave away 667 scholarships, with 17 (2.5 per cent) of these being Bright Future scholarships.
- The eligibility criteria for the new program is the same as the old program.
 - The difference is that the new program is automated.
 - With the old program, students had to manually apply for one of the 500 scholarships available, and we averaged 341 valid applications a year.
 - Now that it is automated, every student who meets the criteria will receive a scholarship.

Ms. Renaud: So how many women would you say come through Women Building Futures every year, let's say, and how many stay in those positions? I mean, I didn't see it through this survey or any kind of survey. How many women stay in, the measures that your ministry undertakes two years after completion of the program? Like, what are the numbers we're talking about? I keep asking that – you know, we ask about women, but we always get Women Building Futures, which is a program. (PA-443)

Response

- The Apprenticeship Data Integration Project Phase One integrated data encompassing a nine-year time span (from 2010/11 to 2018/19) between WBF and Advanced Education to determine the trajectory of WBF clients into Advanced Education apprenticeship programs.
 - Across all years, 60 per cent of WBF clients who graduated from WBF pre-apprenticeship type programs went on to register as an apprentice.
 - The highest rate of apprenticeship registration observed was 71 per cent for the cohort that began their WBF program in 2012/13.
 - The percentage ranged across the reporting years from 54 per cent to 71 per cent.
 - More than half (51 per cent) of clients who first became involved with WBF in 2010/11 and transitioned to apprenticeship went on to complete an apprenticeship program. This was the highest rate observed.
 - Completion rates for the next two years drop to approximately 40 per cent (39 per cent in 2011/12 and 43 per cent in 2012/13).
 - This drop is expected, as previous research has shown that it takes, on average, six years to complete an apprenticeship. The more time that has passed since WBF clients began their WBF program, the more likely it is they have had the time to complete their apprenticeship program.
 - WBF clients were more likely than other women apprentices to complete an apprenticeship (34 per cent vs 29 per cent, respectively).

Ms Renaud: But we're looking at a larger picture of there are a lot more women in Alberta, so my question is: other than Women Building Futures, because I'm assuming the number is not sufficient, what else is the ministry doing to encourage women, to support women, to track their success and progress? I really didn't see much in the annual report.

Response

- Several scholarships (between \$1,000 and \$1,500 each) are available to support women in apprenticeship programs.
 - Fifteen scholarships are awarded to females in apprenticeship programs.
 - One scholarship is awarded specifically to an indigenous female in an apprenticeship program.
 - One scholarship is awarded to either a female or an indigenous apprentice (whichever has higher marks).
 - Women may also be eligible for many other scholarships that are not specifically targeted to female apprentices.
- All apprentices, including women, can apply for loans and grants to help with the cost of attending classroom instruction.
 - The federal government provides the Apprenticeship Incentive Grant for Women, which is a \$3,000 taxable grant for women in Red Seal trades.
- The Apprenticeship and Industry Training Statistical Profiles (Appendix 1), published annually, track:

- Total Number of Women Apprentices Registered by Year (Chart 8).
- Total Number of Women Apprentices Registered by apprenticeship program (Table 11).
- Per Cent Change of Women Apprentices Registered by Designated Trade (Chart 11).
- Apprenticeship completion rate by year for women (Chart 5).

Ms. Lovely: Can the ministry describe how it determines the amount of funding needed for this program (WBF) this year? (PA-445)

Response

- WBF and Advanced Education had an existing one-year, \$1.5 million grant agreement for 2019/20.
- In 2019/20, Advanced Education provided WBF with an additional \$1 million through a new one-year grant agreement.
- A new three-year grant agreement was developed for \$10 million total over four years.

Ms. Lovely: What is the role of the ministry as determined by this agreement?

Response

- The department provides all the grant management support to the agreement with WBF.
 - This includes ensuring all reporting requirements are met and financial disbursements are made.

Ms. Lovely: What sort of performance metrics are put in place by the ministry to determine whether Women Building Futures is meeting its targets?

Response

- WBF has a number of reporting requirements as part of the agreement including:
 - annual targets and measures;
 - interim progress reports;
 - annual reports;
 - annual financial statements; and
 - annual implementation plans.

Mr. Neudorf: So I'm wondering if there's data on that, where a skilled trade would stay closer to where they went to school, did their apprenticeship. Just as we – again, we're trying to see value for dollars invested in that parity. That's my question relating to the parity part of that. (PA-439)

Response

- Data from Statistics Canada tells us what proportion of Alberta learners remain in Alberta after graduation for both apprenticeship programs and for undergraduate degree programs.
 - The analyses for apprenticeship and undergraduate degree programs are conducted independently, and although methodology for both is similar, the results are not directly comparable.
- For apprenticeship programs where completed apprentices certified in the years 2008 through to 2017:

- Statistics Canada provides data based on tax records for the cohort of completed apprentices certified in a given year.
- Between 85 per cent and 91 per cent of all Alberta apprentices were still in Alberta one year after certification.
 - 86 per cent of all Alberta apprentices certified/graduated in 2017 (most recent analyzed cohort) were still in Alberta one year after certification.
- Between 85 per cent and 92 per cent of all Alberta apprentices certified/graduated in the years 2008 through to 2016 were still in Alberta three years after certification.
 - 85 per cent of all Alberta apprentices certified/graduated in 2015 (most recent analyzed cohort) were still in Alberta five years after certification.
- For undergraduate degree programs:
 - Statistics Canada provides data on the proportion of undergraduate degree graduates of Alberta post-secondary institutions (Canadian students only) based on tax records for the cohort of graduates in a given year.
 - Between 87 per cent and 90 per cent of all Alberta undergraduate degree graduates from the classes of 2010 through to 2015 remained in Alberta two years after graduation.
 - 87 per cent of all Alberta undergraduate degree graduates from the class of 2015 (most recent analyzed cohort) remained in Alberta two years after graduation.
 - Between 85 per cent and 86 per cent of all Alberta undergraduate degree graduates from the classes of 2010 through to 2012 remained in Alberta five years after graduation.
 - 86 per cent of all Alberta undergraduate degree graduates from the class of 2012 remained in Alberta (most recent analyzed cohort).

Mr. Schmidt: What was the annual cost of canceling the tuition tax credit for families? I guess two questions to that: how much more, now, will families have to pay because the tuition and education tax credit have been cancelled, and what does that save the government, I guess annually? (PA-433)

Response

- Alberta education and tuition tax credits were eliminated to achieve targeted fiscal restraints for government by reducing government’s costs associated with supporting students in post-secondary studies.
- The elimination of tax credits put the province in line with other jurisdictions like Ontario and Saskatchewan, where a similar tax credit does not exist.
- While tax credits have been eliminated for 2020 and later taxation years, credits earned prior to 2020 may still be claimed.
- The effect on an individual or family as a result of the elimination would vary based on the number of months in study, full- or part-time status and the tuition amount paid.
- Elimination of both tax credits was expected to save Alberta \$20 million in 2019/20, \$90 million in 2020/21, and \$115 million in 2021/22.

Mr. Schmidt: Prior to this transformation project there was a certain percentage of the total scholarships and awards that was based on merit – academic merit, sports merit, those kinds of things – and then there was a certain amount that was based on need. What was the breakdown before the transformation project, and, I guess, what was the breakdown after the transformation project? (PA-434)

Response

- The vision of the scholarship transformation was to:
 - have complementary programs with clearly defined outcomes that are understood and accessible to target audiences; and
 - administer those programs through standardized and consistent policies, processes, and procedures
- The transformation project looked at academic merit scholarships as compared to awards that incited participation and made a strategic decision to better define scholarships and awards. The definitions are as follows:
 - Scholarships recognize students who demonstrate academic excellence.
 - Awards incent access and participation in adult learning.
- Though scholarships and awards are not focused on financial need, some scholarships and awards were created to help under-represented groups who have barriers to accessing post-secondary education. Participating post-secondary institutions may add additional eligibility criteria, which could include a financial need component base on their student's needs; however, this financial need component is not an Advanced Education criterion.

Mr. Schmidt: I want to stay on student loans and grants for a while if I can. On page 21 of the annual report it says that the effective interest rate on all outstanding student loan balances was raised “from prime to prime plus one percentage point.” Well, how much money did that save the government, or how much additional cost was forced onto students who hold student loans as a result of that decision? (PA-436)

Response

- While having minimal impact on students, increasing the student loan interest rate will achieve targeted funding reductions for government by reducing government's costs associated with subsidizing interest rates in the provision for the cost of student loans issued. Government will also see increased interest revenue.
 - Advanced Education will have an ongoing estimated operating expense savings of \$36 million starting in 2020/21 from 2018/19 actuals in the provision for future costs of student loans issued.
 - Government will have increased interest revenue by \$20.1 million in 2020/21 growing to \$28.9 million by 2022/23 from 2018/2019 actuals.
- Increasing the interest rate from prime to prime plus one percentage point will have a marginal impact on student loan borrowers.
 - Over a standard 9.5 year amortization period, the cost of borrowing on the Alberta loan is likely to increase by \$700-\$900.

Mr. Schmidt: If the ministry could table a complete breakdown of the changes that they made to scholarships and awards and grants in the 2019-2020 year as well as how much was awarded from each scholarship and award. Can you also provide the criteria for each of those scholarships and awards? Also, provide a detailed expenditure of the heritage trust fund scholarship that was awarded. (PA-445)

Response

Changes to scholarships and awards:

In 2019/20:

- We delivered 55 scholarships and awards to target audiences with the same amount of funding, \$97 million.

- We consolidated seven graduate scholarships into the Alberta Graduate Excellence Scholarship:
 - Alberta Ukrainian Centennial Commemorative Scholarship
 - Graduate Citizenship Award
 - Graduate Student Scholarship
 - Helen Hunley Public Policy Graduate Scholarship
 - Indigenous Graduate Award
 - International Education Awards - Ukraine Scholarship
 - Queen Elizabeth II Graduate Scholarship (QEII).
- We consolidated two athletic scholarships into the Alberta Athletic Award:
 - Jimmie Condon - Alberta Varsity Athletic Award
 - Wessex - Alberta Varsity Athletic Award.
- We consolidated three athletic scholarships into the Alberta Junior Athletic Award:
 - Charles S. Noble Junior Football Scholarship
 - Charles S. Noble Junior Hockey Scholarship
 - Prairie Baseball Scholarship.
- We transitioned eight scholarships/awards to other ministries:
 - Alberta Centennial Award
 - Alberta's Premier Citizenship Award
 - China Alberta Award for Excellence in Chinese Scholarship
 - Grant MacEwan United World College
 - Language Bursary Program for Teaching Indigenous Languages
 - Language Teacher Bursary Program
 - Queens Golden Jubilee Citizenship Medal Award
 - Queen's Jubilee Scholarship for Performing and Visual Arts.
- We aligned 22 various deadlines to two deadlines: October 31 and January 15.
- We created standardized processes with ministries and post-secondary institutions.
- We redesigned 32 paper applications.

Please see the attached chart for a breakdown of 2019/20 scholarship and award eligibility criteria, 2019/20 finals, and funding source (Heritage or Operating).

Alberta Student Aid			
2019-2020 Scholarships and Awards			
Name	Description	2019/20 Finals	Fund Source (Heritage Scholarship Fund or Operating)
Adult High School Equivalency Scholarship	Two hundred scholarships of \$500 each are available to students who have been out of high school for three years and have completed a high school equivalency program at an eligible school in Alberta. Available on the basis of academic achievement. Recipients must be continuing their studies full-time in a post-secondary program. Recipients are nominated by the educational institution where they completed their high school equivalency program.	\$8,000	Heritage

Alberta Apprenticeship and Industry Training Scholarships	Valued at \$1,000 these scholarships recognize the excellence of Alberta apprentices in a trade and trainees in a designated occupation, and encourage recipients to complete their apprenticeship or occupational training programs.	\$392,000	Heritage
Alberta Athletic Award	Valued at \$1,800 this award recognizes and rewards athletic excellence at universities, colleges, and technical institutions in Alberta. There are 1,947 awards available and are delivered via grant agreements with the publically funded post-secondary institutions.	\$3,416,000	Operating
Alberta Award for the Study of Canadian Human Rights and Multiculturalism- Graduate	Two awards are available: \$10,000 for master's level study and \$15,000 for doctoral-level study. This award is intended to encourage graduate studies in Canadian human rights, cultural diversity, and multiculturalism in order to build capacity to undertake human rights or multicultural work in Canada. In recognition of Alberta's centennial and the contributions and experiences of Alberta's diverse population, the Minister of Community Development established the Alberta Award for the Study of Canadian Human Rights and Multiculturalism.	\$25,000	Heritage
Alberta Barley Commission-Eugene Boyko Memorial Scholarship	One scholarship of \$500 is available to a student entering the second or subsequent year of post-secondary study in Alberta enrolled in courses with an emphasis on crop production and/or crop processing technology. Academic achievement will also be taken into consideration.	\$500	Heritage
Alberta Centennial Award	Twenty-five scholarships of \$2,005 each are available to Alberta students entering any level of post-secondary study at any university, college, technical institute or apprenticeship program in Canada. This award was established to commemorate the Province of Alberta's Centennial. Scholarship recipients are selected from nominations received for the Premier's Citizenship Award. Students cannot receive both the Alberta Centennial Scholarship and the Queen's Golden Jubilee Citizenship Medal.	\$50,125	Heritage
Alberta Excellence in Agriculture Scholarship	Two scholarships of \$3,000 are available to students enrolled full-time in the second or subsequent year of post-secondary study in Alberta, and enrolled in a program related to the field of agriculture. Available on the basis of academic achievement.	\$6,000	Heritage

Alberta Federation of Agriculture Scholarship	One scholarship of \$500 is available to a student attending full-time in the second or subsequent year of post-secondary study in Alberta enrolled in a program related to the field of Agriculture. Preference is given to members, children, or grandchildren of members of the Alberta Federation of Agriculture. Academic achievement is also taken into consideration.	\$500	Heritage
Alberta Graduate Excellence Scholarship	Valued at \$11,000-15,000, this scholarship recognizes outstanding academic achievement of students pursuing graduate studies in Alberta. It was established to incent the best and the brightest students, including international students, to study in Alberta. There are 1,345 scholarships available and are delivered via grant agreements with the publically funded post-secondary institutions.	\$11,648,350 \$3,075,000 Total: \$14,723,350	Operating and Heritage
Alberta Innovates Graduate Scholarship	Advanced Education provides a grant to Alberta Innovates to select up to 150 graduate students to receive up to \$20,000 for research and graduate studies	\$3,000,000	Operating
Alberta Junior Athletic Award	Valued at between \$1,000-2,000 this award recognizes and rewards junior athletes and provides an incentive for athletes to continue with their post-secondary education. There are 70 awards available.	\$43,500	Heritage
Alberta's High School Apprenticeship Scholarship Program	Valued at \$1,000 or \$2,000, this program helps meet the government's commitment to make it easier for young people to access the skills and training they need to get good jobs as skilled trades professionals. Alberta's High School Apprenticeship Scholarship program recognizes the accomplishments of high school students participating in the Registered Apprenticeship Program and/or Career and Technology Studies apprenticeship pathways.	\$568,000	Heritage
Alexander Rutherford High School Achievement Scholarship	This demand-based scholarship is available to recognize and reward academic achievement at the high school level and encourage students to pursue post-secondary studies. The scholarship has a value of up to \$2,500. Scholarships are available to students achieving a minimum average of 75 percent in five designated courses in at least one grade: Grade 10, 11, or 12. The minimum average, value of the award, and courses that can be used depend on the year the student graduated from high school. Recipients must be enrolled in a full-time post-secondary program or be in an apprenticeship.	\$40,449,500	Heritage

Anna and John Kolesar Memorial Scholarship	One \$1,500 scholarship will be available to the applicant with the highest average in three designated Grade 12 subjects. Applicants must be planning to enroll in an education program and be from a family where neither parent has a university degree.	\$1,500	Heritage
Apprenticeship Training Award	This demand-based award is a \$1,000 financial award for registered apprentices who are “Unemployed in the Trade” and attending second, third or fourth period technical training at an Alberta-approved technical training provider, on or after August 1st, 2016. This financial award is geared toward helping apprentices not employed in their trade by providing financial assistance to help offset the costs of completing technical training.	\$1,500,000	Funded through Supports for Apprenticeship
Arts Graduate Scholarship	Seven awards of \$15,000 for study at a master’s level or equivalent in music, drama, dance, literary arts, and the visual arts in Alberta and institutions outside Alberta.	\$105,000	Heritage
Belcourt-Brosseau Métis Awards (BBMA)	Valued at between \$2,000-10,000, the award is intended to cover a portion of education-related costs such as tuition and fees. Priority will be given to Metis students entering their first year of post-secondary education. Students applying for these awards must show financial need and have a connection to the Métis community. Selection is done through an award panel who reviews each application to ensure that the criteria of the award is met. Students apply to the Edmonton Community Foundation.	\$60,000	Heritage
Canadian Oil Sands Network for Research and Development Scholarship	Two scholarships of \$5,000 are available to students in their final year of study at the undergraduate and graduate level involved in projects that show commercial potential and/or relevance. Applicants must achieve a minimum GPA of 3.0 on a 4.0 grade point scale.	Not Awarded in 2019/20	Heritage
Charles S. Noble Scholarship for Study at Harvard	Three scholarships of \$5,000 are available to students for undergraduate study at Harvard. The awards are co-sponsored by the Alberta Heritage Scholarship Fund and an endowment established by Edmonton businessman Sandy Mactaggart.	\$15,000	Heritage
China - Alberta Award for Excellence in Chinese	One award of \$500 to a student who has demonstrated excellence in a high school Chinese language and culture program. Available on the basis of academic achievement.	\$3,000	Heritage
Coal and Electricity Transition Tuition Voucher	Albertans who have lost jobs due to the closing of coal powered electrical plants are offered up to \$5,000 to retrain for other careers.	\$170,255	Operating

David Johnston Law Scholarship	Two scholarships valued at \$10,000 are available to students enrolled in the Faculty of Law at the University of Alberta and the University of Calgary. Available on the basis of an applicant's past accomplishments including academic achievement and volunteer activities.	\$20,000	Heritage
Dr. Ernest and Minnie Mehl Scholarship	One \$3,500 scholarship is available to a student graduating from an Alberta high school and enrolling in a post-secondary degree program. The recipient is selected based on diploma examination marks.	\$7,000	Heritage
Dr. Gary McPherson Leadership Scholarship	One hundred scholarships of \$2,000 each are available to recognize students who have demonstrated outstanding leadership, especially in the area of disability and/or initiative to improve the conditions and lives of others while attending a post-secondary institution in Alberta. Students can be enrolled in an undergraduate, professional, graduate, apprenticeship, diploma or certificate program at a designated Alberta institution.	\$182,000	Heritage
Dr. Robert and Anna Shaw Scholarship	Three scholarships of \$1,000 are available to high school students graduating from Sexsmith Secondary School in the current year who demonstrated a high academic standing in Grade 12 and are enrolled full-time in a post-secondary program related to agriculture, engineering, fine arts, health, or the trades.	\$1,000	Heritage
Grant MacEwan United World College (UWC) Scholarships	Sixteen scholarships are available to cover tuition, room and board (at approximately \$40,000 per year) and one return trip home per year for two senior high school years of study at a United World College. These awards are based on academic ability, leadership, community service, references, and an interview.	\$661,615	Heritage
Hélène and George Kilik Scholarship	Two scholarships of \$1,000 is available to a student from Olds High School who has been involved in extracurricular activities, and has shown academic success, particularly in mathematics and science. Applicants should be planning to pursue full-time post-secondary studies. The recipient is chosen by a selection committee at Olds High School.	\$2,000	Heritage
Indigenous Career Awards	Approximately 1,400 awards are available to help encourage Indigenous Albertans (First Nations, Métis and Inuit) to pursue and complete post-secondary studies in certificate, diploma, applied degree, and bachelor's degree programs leading to high-demand career outcomes in Alberta. Awards are valued at \$2,000 per semester up to a maximum of \$4,000 per academic year.	\$5,280,000	Operating

Janet and Horace Allen Science Scholarship	One scholarship of \$1,500 is available for the top science graduate from Crowsnest Pass High School who has enrolled full-time in a post-secondary institution.	\$1,500	Heritage
Jason Lang Scholarship	This demand-driven scholarship of \$1,000 scholarship is available to post-secondary students enrolled in an undergraduate or professional program at eligible post-secondary institutions in Alberta. The minimum required average is 3.2 on a 4.0 grade point scale in the qualifying year of study. Students who meet the eligibility criteria are nominated by the participating Alberta post-secondary institution.	\$18,674,000	Operating
Jo-Ann Koch for Bright Children Society Scholarship	One scholarship of \$1,500 is available to a student enrolled full-time in the second or subsequent year of a Bachelor of Science program in chemical engineering, nursing, or social work at a post-secondary institution in Alberta.	\$1,500	Heritage
Keyera Energy-Peter J Renton Memorial Scholarship	Two scholarships valued at \$3,000 are available to students who are enrolled full-time in a publicly funded Alberta post-secondary institution in Alberta in the first or second year of a degree/diploma program in a field of study supporting the oil and gas industry and have maintained a 3.0 grade point average (GPA), out of 4.	\$6,000	Heritage
Indigenous Language Teacher Bursary	Five bursaries up to \$5,000 each for Alberta teachers, Elders or instructors to take an accredited post-secondary course in an Indigenous language or an Indigenous teaching method. Funding may cover course tuition, travel, and accommodation expenses.	No bursary given out in 2019/20	Heritage
Languages In Teacher Education Scholarship	Up to 16 awards of \$2,500 each are available to students enrolled in a Bachelor of Education program in Alberta and studying a language other than English.	\$40,000	Heritage
International Language Teacher Bursary	Ten bursaries of \$5,000 are available for teachers with a valid Alberta teacher certification. Eligible recipients must intend to take a summer program of study outside of Canada in a language other than English or language pedagogy course.	\$50,000	Heritage
Laurence Decore Awards for Student Leadership	One hundred and two awards valued at \$1,000 each are available for undergraduate students involved in either student government or student societies, clubs, or organizations; or involved in student organizations at the provincial or national level; or in non-profit community organizations.	\$102,000	Heritage
Lois Hole Humanities and Social Sciences Scholarship	Six scholarships of \$5,000 each are available to students enrolled full-time in the second or subsequent year of post-secondary study in humanities or social sciences. Available on the basis of academic merit, demonstrated leadership, and community service.	\$35,000	Operating

Louise McKinney Post-Secondary Scholarship-In Alberta	Up to 1,450 awards valued at \$2,500 are available to students continuing in their second or subsequent years of post-secondary study. Selection is based on academic achievement. Students enrolled in programs within the province are nominated by the awards office of eligible institutions. An out of province Louise-McKinney scholarship of identical value is available to students studying in a post-secondary program that is not offered in Alberta.	\$3,582,500	Heritage
Louise McKinney Post-Secondary Scholarship-study outside Alberta	Up to 10 scholarships available. This scholarship is valued at \$2,500, and is available to Alberta residents continuing in their second or subsequent years of post-secondary study in a program not offered in Alberta. The student's class standing must be in the top two per cent of their program enrolment.	\$17,500	Heritage
Maria Sava Polish Heritage Scholarships	Five scholarships of \$1,000 for students entering post-secondary studies and have taken the Jan Pawell II Program in grades 7, 8 and 9 at St. Basil School in Edmonton.	No scholarship given out in 2019/20	Heritage
Mildred Rowe Weston Memorial Scholarships	Three scholarships of \$1,000 each for students graduating from an Alberta high school and enrolling in a post-secondary degree program. Students must have completed at least three courses through the Alberta Distance Learning Centre as shown on an Alberta Education transcript with school code. Recipients are selected based on diploma examination marks.	\$3,000	Heritage
Northern Alberta Development Council Bursaries (3 Bursary types) - NADC Bursary - BPP - FNMI	Northern Alberta Development Council Bursaries Program – NADC Bursary: a return service bursary of \$6,000 per year for a maximum of two years and is offered to students in the final two years of post-secondary studies. It is meant to encourage students to train for high demand jobs in northern Alberta including: education, social work, medical and health, engineering and technical fields. Northern Alberta Development Council Bursary Partnership Program – The Bursary Partnership Program encourages employers to invest in the future of northern Alberta by sponsoring a return service bursary for post-secondary students. The NADC provides matching funds of up to \$3,000 per student per year. Northern Alberta Development Council First Nation, Metis, and Inuit (FNMI) Bursary is a return service bursary of varying amounts. Students in pre-apprenticeship training or in a certificate or diploma studies can access up to \$6,000 for their studies. Students in a bachelor's, master's or PhD program	\$1,046,350	Operating

	can access \$10,000 per year for any year of their studies.		
Pre-Apprentice Scholarships	Eleven scholarships of \$1,000 are available to registered apprentices who have successfully completed a recognized pre-apprenticeship program. Programs must include at least four weeks (120 hours) of trade-related instruction, not including work experience components. Recipients are selected based on their marks, and, in some cases, on financial need. Pre-Apprentice Scholarships encourage those completing pre-apprenticeship training programs to continue in the trades and complete their apprenticeship training.	\$879,000	Operating
Premier's Citizenship Award (Alberta Citizenship Award)	One non-financial award (a Commendation Letter) per high school in Alberta is available to recognize students graduating from high school who have supported and contributed to Alberta communities through public service and voluntary endeavors.	Non-Financial	N/A
Queen's Golden Jubilee Award	Eight outstanding recipients of the Premier's Citizenship Award are eligible to receive the Queen's Golden Jubilee Award (medal). Students must be entering any level of post-secondary study at any university, college, technical institute, or apprenticeship program in Canada. Recipients receive a Queen's Golden Jubilee Award (medal), a letter of commendation from the Lieutenant Governor, and a \$5,000 award to commemorate the Queen's Golden Jubilee in 2002.	\$40,000	Heritage (Culture's Budget)
Queen's Jubilee Scholarship for Performing and Visual Arts	Two scholarships valued at \$5,000 is available annually to a young Albertan 25 years of age or younger who demonstrates talent and potential along with clear educational or training goals in the performing arts. This scholarship is delivered by Alberta Culture.	\$10,000	Heritage (Culture's Budget)
Rutherford Scholar Awards	The top 10 Alberta students, as determined on the first writing of diploma examinations in English 30-1 or 30-2 or Français 30 or 30-2; Social 30; and three other diploma examination subjects, are recognized as "Rutherford Scholars" and receive a scholarship of	\$35,000	Heritage

	\$2,500 in addition to their Alexander Rutherford Scholarship.		
Serving Communities Internship Program	Up to 1,000 awards are available to students who take part in volunteer internships at Alberta non-profit organizations. Discontinued in 2020/21.	\$939,000	Operating
Sir James Lougheed Awards of Distinction	Fifteen awards are available to recognize academic excellence and provide Alberta students with the opportunity for advanced study at institutions outside of Alberta. Awards are valued at \$15,000 for master's level and \$20,000 for doctoral level study.	\$265,000	Heritage
Theodore R. Campbell Scholarship	One scholarship of \$1,500 is available to an Indigenous student enrolled in the second year of a University Transfer Program in Education at Blue Quills First Nations College.	\$1,500	Heritage
Tiessen Foundation Broadcast Scholarship	One scholarship of \$750 is available to students who have completed high school in Alberta and will be pursuing post-secondary studies at any recognized educational institution in Canada that offers a degree or diploma in broadcasting: TV, radio, or broadcast engineering. Available on the basis of academic achievement and a 750 word essay.	No scholarship given out in 2019/20	Heritage
Top Apprentice Scholarship	Twenty-two scholarships of \$1,500 to students who have achieved both a high academic standing in their technical training and a strong employer recommendation. Apprentices do not apply for the Top Apprentice Scholarship they are pulled from pool of eligible apprentices.	\$33,000	Funded through Supports for Apprenticeship
WorldSkills Legacy Scholarships	Approximately one hundred and twenty scholarships are available for registered apprentices in Alberta have received a top podium finish in the Provincial Skills Canada Competition. Team Alberta participants who become part of Team Canada can receive an additional \$7,000 award over a two-year period to support their training for a WorldSkills Competition. These scholarships were created as a legacy to WorldSkills Calgary 2009, which was hosted by Alberta to showcase to the world the dynamic talent that resides in Alberta.	\$49,600	Heritage

Ms. Pancholi: On page 45 of the annual report that \$400 million was issued in severance costs as a result of these layoffs in 2019-20. Can the ministry share what analysis they did on the value for money of these severance costs versus keeping Albertans employed and using that teaching capacity to bring in more international and domestic students? (PA-444)

Response

- On page 45 of the annual report, the \$399 million higher in expenses over budget relates to salary and employee benefits related to severance costs and restricted funds for activities such as research. The full amount does not pertain solely to severance costs.

Ms. Pancholi: Lastly, I will request that – there were a lot of cuts made in 2019/20 of course, to post-secondary institutions, but these cuts were not evenly distributed. In fact, the University of Alberta, the University of Calgary, and the University of Lethbridge carried the bulk of those cuts. Can the ministry staff please table an indication whether or not those decisions as to which institutions would be cut, was a ministerial direction, a Treasury Board decision, or a cabinet decision? While we do get a lot of excellent training from our polytechnics and regional colleges, the majority of innovation in higher tech especially comes from these universities. How do you reconcile the cuts at these major institutions with, apparently, the government’s new focus on innovation and tech? (PA-444)

Response

- Although Treasury Board decides each ministry’s budget, including that of Advanced Education, Advanced Education based the reductions on the findings of the MacKinnon Panel.
- The MacKinnon Panel found that Alberta spends more per student compared to similar provinces, but does not necessarily get better post-secondary results. Previous spending was not sustainable, and a more equitable approach was required.
- Base funding grant allocations have been reduced differentially in an attempt to bring government funding into alignment between similar institutions in Alberta, as well as with funding provided to similar institutions in other provinces.

Ms. Lovely: On page 20 of the annual report 2019/20, “Advanced Education began to shift the investment management framework for Alberta’s post-secondary system to ensure long-term sustainability.” What are the savings seen from shifting to a sustainable investment framework? (PA-445)

Response

- The department was unable to establish an outcomes-based funding model, which is operationalized through the use of Investment Management Agreements, by the end of 2019/20 due to the outbreak of the COVID-19 pandemic.
- The implementation of Investment Management Agreements have only begun this current year, and negotiations are preliminary at this point.
- The use of an outcomes-based funding model is not intended to detract from the current government funding that is going into Alberta’s post secondary system; instead, the intent is to ensure institutions remain focused on outcomes that are very important to Albertans, which occur primarily through front-line services and programs, while at the same time maximizing the administrative efficiency of the system.

Ms. Pancholi: Can the ministry staff also follow up with this committee in writing with an itemized list of the in-year cuts and their amounts totalling \$18 million or \$19 million, which was indicated was the total savings required, and confirm in writing that the veterans’ scholarship was not awarded in 2019/20 due to in-year savings? (PA-444)

Response

The Decoteau release was not part of the in-year savings. It was rolled out in August 2020 as part of the 2020/21 scholarship year.

In response to the request for an itemized list for the \$19 million of in-year savings, the correct total is \$25.6 million. The government savings that year were as follows:

- 2.2 – \$4.6 million related to Keyano Cost of Living Allowance deferral and apprenticeship technical training grant;
- 2.4 – \$3.8 million related to strategic initiatives;
- 2.6 – \$0.8 million Inmate Education savings;
- 2.7 – \$4.4 million related due to the Technology Talent program and other minor programming not fully committed; and
- 6.2 – \$12 million in Capital Maintenance and Renewal.

Mr. Neudorf: In the Auditor General’s report under ministry desired outcomes, their third ministry desired outcome on “post-secondary institutions have the flexibility and freedom to innovate and compete” my question are these: what are the flexibilities available to post-secondary institutions? Could there be further changes that allow even more flexibilities for post-secondary institutions to more effectively manage their programs and overall funding so as to increase both service and cost efficiencies? (PA-445)

Response

- Through the Red Tape Reduction initiative, the ministry has created a more streamlined and timely program approval process that will greatly benefit all institutions. In allowing for a more responsive program development process, institutions are able to be flexible in responding to student interest, labour market indicators, and can identify changes or additions to their program offerings to meet the demands of emerging trends and changing technologies. The ministry is committed to the highest program quality across the system, but will continue to evaluate our program approval process and quality oversight to ensure institutions are able to be flexible and responsive to the programming needs of Albertans.
- Research and knowledge creation is fundamental to Alberta’s economic and prosperity. The majority of this innovation comes from our post-secondary institutions and the expert researchers at these institutions. The Government of Alberta is committed to ensuring that post-secondary institutions have the flexibility and freedom to pursue all types of research, including discovery research or research for commercialization.
- The Government of Alberta is committed to ensuring that post-secondary institutions have the flexibility to access new sources of revenue. In 2020, the Minister of Advanced Education and the Minister of Jobs, Economy and Innovation convened the Research Working Group composed of post-secondary institutions, industry, and government to explore ways to increase federal research investment to Alberta post-secondary institutions.
- Advanced Education implemented an alternative revenue policy. This policy helps evaluate the risk of for-profit ventures and ensures each institution completes their due diligence while exploring alternative revenue initiatives.
- Advanced Education streamlined and reduced red tape by updating the *Post-secondary Learning Act* to make it easier for institutions to seek out revenue earning possibilities through borrowing and land dispositions.



Apprenticeship and Industry Training Statistical Profiles 2020

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APPRENTICESHIP AT A GLANCE

- Alberta's apprenticeship system is responsive to labour market and skill needs, and facilitates innovative learning pathways for Albertans to become members of an educated and professional workforce. This is made possible through partnerships and collaboration among industry, post-secondary institutions and government.
- Apprenticeship is a post-secondary level program that provides a work-integrated learning opportunity with the majority of learning occurring through meaningful work experience and mentorship.
- Apprenticeship involves a committed partnership between an apprentice, an employer, an educational institution and the Government of Alberta.
- For most apprenticeship programs, approximately 80 per cent of an apprentice's education is completed on the job under the guidance of a qualified individual. The other 20 per cent is completed through classroom instruction provided by public post-secondary institutions.
- The classroom instruction is most often delivered through 'block release', where the apprentice spends a block of time, generally eight weeks per year, in class. For some apprenticeship programs, classroom instruction may also be offered in other formats such as competency-based apprenticeship training (CBAT), distance delivery, weekly apprenticeship training system (WATS), mobile delivery, and blended learning, which combines theory delivered online via e-Learning while the practical portion of classroom instruction takes place at the shop facilities of the training provider.
- 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 learning 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 education through the 22 different Career and Technology Studies (CTS) Pathways to Apprenticeship programs that include first period in-class curriculum. 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 community organizations and unions, provide apprenticeship preparatory programs for adult Albertans. Some programs provide foundational academic and workplace essential skills, and focus on improving employability, while others include curriculum based on apprenticeship classroom instruction.
- Alberta is participating in the Harmonization Initiative and is part of the Apprentice Mobility Protocol, which work to ensure that no Albertan faces mobility barriers to progressing in and completing an apprenticeship program.



Financial Support for Apprentices

- Apprentices can access a variety of financial supports including loans, grants, scholarships and awards such as the Apprentice Training Award.
- 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 apprenticeship programs.
- Most apprentices are eligible for employment insurance while attending classroom instruction.
- A number of scholarships are also available to recognize achievement. As of 2020, more than 1,800 scholarships are available to Alberta apprentices through the Alberta Apprenticeship and Industry Training Board Family of Scholarships, including the new High School Apprenticeship Scholarships for students who successfully complete RAP or a CTS Apprenticeship Pathway.

Alberta's Network of Industry Committees

- Alberta's apprenticeship education system relies on an extensive network of approximately 160 committees and 700 individual industry representatives from industry who identify required skills and competencies and recommend program standards.
- Committee members surveyed in 2018 agreed or strongly agreed (86%) that their committee's work was contributing to positive change in their trade/occupation.

Skills for Jobs Task Force

The Skills for Jobs Task Force was appointed in September 2019 to find ways to reimagine Alberta's apprenticeship and skilled trades system. The mandate of the Skills for Jobs Task Force was to:

- evaluate the current skills and apprenticeship system and strengthen the system, based on best practices from around the world;
- increase awareness of the value of skilled trades careers and strengthen enrolment in apprenticeship programs;
- change student and public perception so apprenticeship education is seen to be as valuable as a university degree; and
- expand the apprenticeship model to other careers and occupations.



The Skills for Jobs Task Force delivered its final report to the Minister of Advanced Education in September 2020. The report was publicly released in January 2021. The final report includes a number of recommendations on ways to support broader skills development in Alberta, strengthen and improve apprenticeship education programs, and modernize skilled trade professions.

For more information on apprenticeship education in Alberta, go to tradesecrets.alberta.ca.

2020 AT A GLANCE – STATISTICS AND MORE

2020 saw the onset of a global pandemic resulting in far-reaching consequences and adjustments to our daily lives. Apprentices have not been immune to the impacts of the COVID-19 pandemic. To help mitigate the impact on apprentices, a number of measures were put in place to help apprentices continue to progress and complete their program. The impact of the COVID-19 pandemic and the new strategies put in place to support apprentices are evident in the data presented below and in the tables and charts that follow.

As of December 31, 2020...

- there were approximately 44,900 registered apprentices. Of those,
 - 4,800 were women;
 - 2,700 self-identified as Indigenous;
 - 2,600 began in RAP;
 - 148 began in a CTS Apprenticeship Pathway; and
 - 80 per cent were registered in 20 programs.
- approximately 650 high school students were registered in the Registered Apprenticeship Program (RAP), and were employed at more than 350 employer sites.

In 2020...

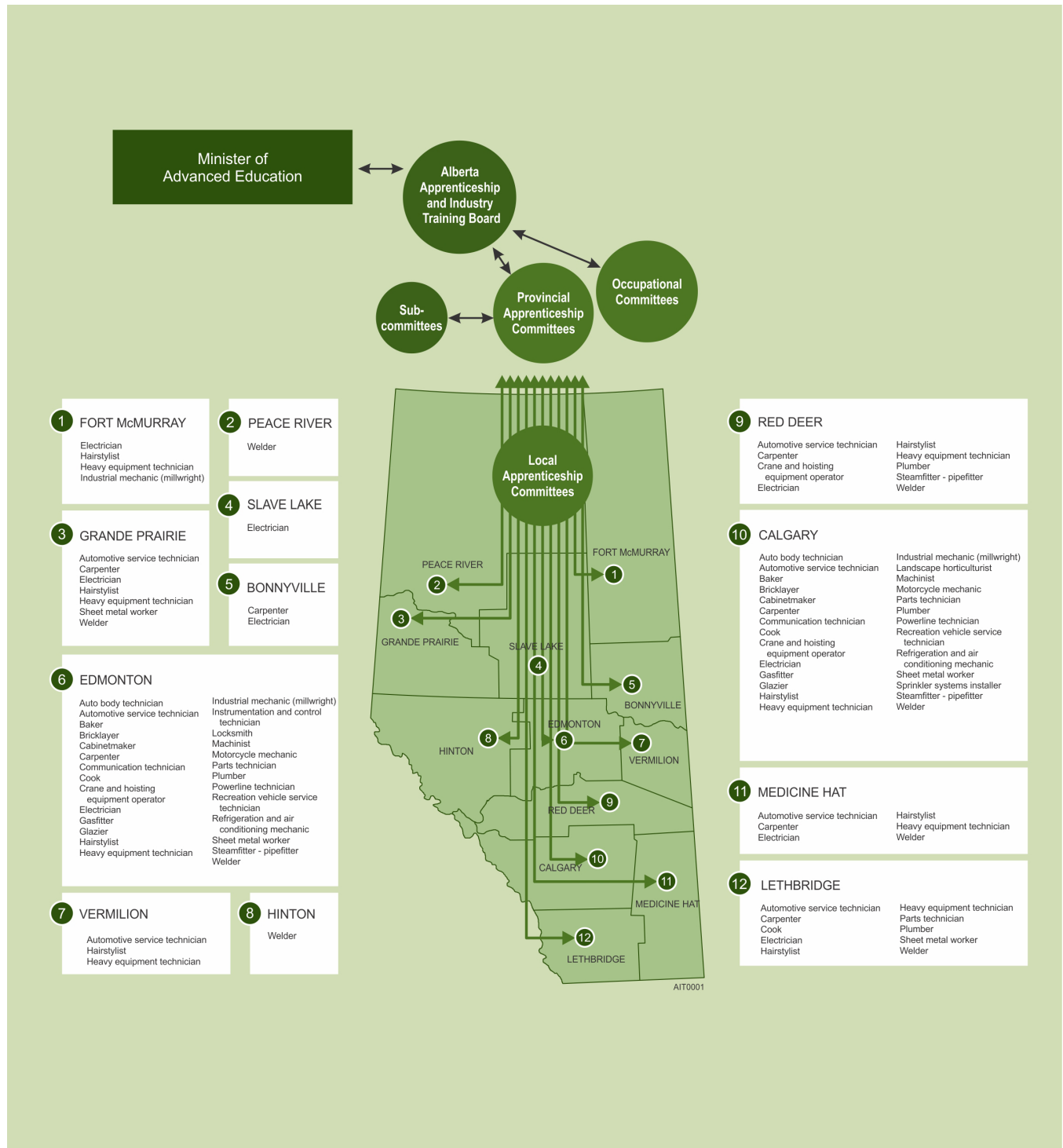
- more than 7,800 new apprentices registered.
- apprentices were being trained at more than 11,000 employer sites around Alberta.
- approximately 4,400 individuals completed their programs. (This includes completed apprentices and individuals issued occupation and qualification certificates.)
- Advanced Education staff connected with more than 15,000 employer shops to promote apprenticeship programs, and work with employers and apprentices to ensure the successful completion of apprenticeship education.
- more than 1,000 scholarships were awarded to Alberta apprentices totalling \$1 million.

Other Interesting Facts...

- More than 6,000 individuals who began their apprenticeship through RAP and 350 who began through CTS Apprenticeship Pathways have gone on to complete their program.
- While Alberta has 12 per cent of Canada's labour force, our province has approximately 16 per cent of the country's apprentices.
- Alberta welcomes skilled trades professionals from other jurisdictions and recognizes all Canadian trades certification.
- The majority of 2018/2019 graduates in Alberta who participated in the most recent apprenticeship graduate survey expressed satisfaction with:
 - the overall quality of on-the-job learning (90%);
 - the overall quality of their classroom instruction (93%); and
 - their experience with the apprenticeship program – 89 per cent 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

	2015	2016	2017	2018	2019	2020
Total Apprentices Registered (all trades)	67,955	58,337	50,611	48,206	44,115	44,928
New Apprentices Registered (all trades)	17,227	13,004	12,637	13,760	11,627	7,820

Source: Alberta Advanced Education

Total Apprentices Registered: Total number registered as of December 31, 2020. Apprentices may be registered in more than one apprenticeship program or branch of a program 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 program after completing one or more apprenticeship programs in previous years, or continuing in a different apprenticeship program for which they registered in a previous year. Apprentices who registered in more than one apprenticeship program or branch of a program within a specific year, or who changed from one branch to another branch within the same program on the same day, are counted only once. The number does not include reinstated apprentices (unless reinstated in the same year).

Part B: Provincial Labour Force Statistics by Year¹

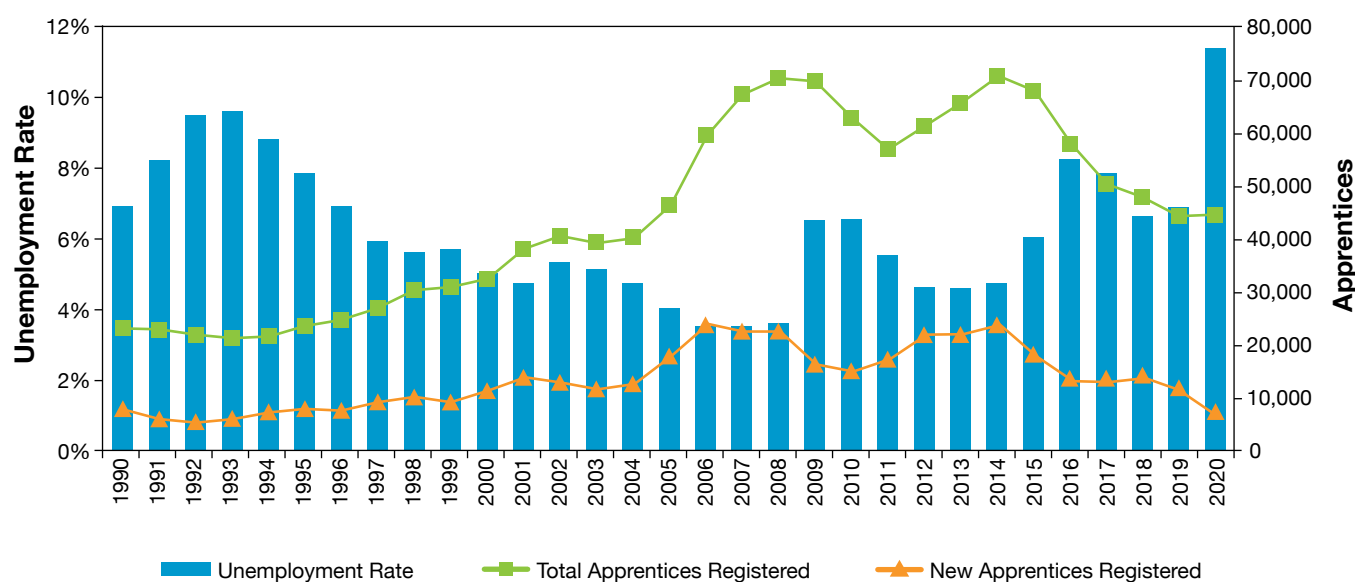
	2015	2016	2017	2018	2019	2020
Labour Force	2,391,400	2,391,000	2,412,100	2,425,300	2,450,600	2,405,000
Employed	2,246,400	2,195,700	2,220,800	2,263,600	2,279,300	2,129,800
Unemployed	145,000	195,400	191,300	161,700	171,300	275,200
Unemployment Rate (%)	6.1%	8.2%	7.9%	6.7%	7.0%	11.4%

Source: Alberta Labour, Statistics Canada

¹ Both sexes; 15 years and over; all industries

CHART 1

Alberta Unemployment Rates and Total and New Apprentices Registered by Year



Source: Alberta Advanced Education, Alberta Labour, Statistics Canada

TABLE 2

Total Number of Apprentices Registered by Apprenticeship Program¹

APPRENTICESHIP PROGRAM	2015	2016	2017	2018	2019	2020	2019-20 % change
Agricultural Equipment Technician ■	199	164	161	170	166	170	2%
Appliance Service Technician	75	75	73	77	89	111	25%
Appliance Service Technician • ■	68	70	66	70	78	93	19%
Commercial Appliance Service Technician •	7	5	7	7	11	18	64%
Auto Body Technician	661	665	636	669	620	632	2%
Auto Body Technician • ■	514	504	500	521	466	490	5%
Auto Body Prepper •	20	24	19	27	31	23	-26%
Auto Body Refinisher • ■ (Note 1)	87	94	78	76	73	75	3%
Auto Body Repairer • (Note 1)	40	43	39	45	50	44	-12%
Automotive Service Technician • ■	3,205	3,068	3,018	3,066	3,104	3,353	8%
Baker ■	174	177	183	187	165	139	-16%
Boilermaker • ■	478	527	470	544	536	537	0%
Bricklayer ■	182	170	158	117	90	95	6%
Cabinetmaker ■	258	257	263	261	245	250	2%
Carpenter ■	3,374	3,104	2,799	2,670	2,443	2,562	5%
Communication Technician	140	135	95	96	87	73	-16%
Concrete Finisher ■	71	57	43	34	26	20	-23%
Cook ■	976	977	875	802	729	666	-9%
Crane and Hoisting Equipment Operator	3,017	2,354	1,892	1,944	1,616	1,322	-18%
Boom Truck Operator •	1,014	827	614	609	493	331	-33%
Mobile Crane Operator • ■	1,042	804	586	519	524	502	-4%
Tower Crane Operator • ■	75	53	48	68	47	60	28%
Wellhead Boom Truck Operator •	886	670	644	748	552	429	-22%
Electric Motor Systems Technician ■	34	35	33	44	41	41	0%
Electrician • ■	13,258	11,714	10,321	9,201	7,983	7,965	0%
Elevator Constructor •	253	318	289	254	196	144	-27%
Floorcovering Installer ■	43	35	32	32	24	17	-29%
Gasfitter	529	506	486	517	488	530	9%
Gasfitter A • ■	450	420	397	406	362	341	-6%
Gasfitter B • ■	79	86	89	111	126	189	50%
Glazier	270	287	290	252	239	243	2%
Glazier ■	268	287	290	252	239	243	2%
Auto Glass Technician (Note 2)	2	0	N/A	N/A	N/A	N/A	N/A
Hairstylist	2,222	2,218	2,241	2,248	2,194	2,496	14%
Barber • (Note 3)	N/A	N/A	N/A	N/A	N/A	90	N/A
Hairstylist • ■	2,222	2,218	2,241	2,248	2,194	2,406	10%
Heavy Equipment Technician	6,195	4,933	4,214	4,539	4,797	4,963	3%
Heavy Equipment Technician •	4,970	3,842	3,191	3,379	3,508	3,578	2%
Heavy Duty Equipment Mechanic (Off Road) • ■	443	387	361	412	441	469	6%
Transport Trailer Mechanic •	145	117	101	106	138	142	3%
Truck and Transport Mechanic • ■	637	587	561	642	710	774	9%
Industrial Mechanic (Millwright) ■	2,176	1,814	1,554	1,544	1,564	1,603	2%
Instrumentation and Control Technician ■	1,956	1,580	1,429	1,349	1,201	1,211	1%
Insulator (Heat and Frost) ■	786	756	826	823	453	412	-9%
Ironworker	1,665	1,647	1,156	1,001	1,028	1,067	4%
Ironworker (Generalist) • ■ (Note 4)	371	358	265	120	45	25	-44%
Ironworker (Metal Building Systems Erector) •	91	77	56	65	102	105	3%
Ironworker (Reinforcing) • ■	337	270	316	444	508	557	10%
Ironworker (Structural/Ornamental) • ■	866	942	519	372	373	380	2%

(continued)

TABLE 2 (continued)

Total Number of Apprentices Registered by Apprenticeship Program¹

APPRENTICESHIP PROGRAM	2015	2016	2017	2018	2019	2020	2019-20 % change
Landscape Horticulturist ■	147	155	147	141	118	127	8%
Lather (Interior Systems Mechanic) ■	118	111	98	83	73	56	-23%
Locksmith	133	143	127	122	119	130	9%
Machinist ■	753	529	367	425	457	480	5%
Metal Fabricator (Fitter) ■	129	99	76	64	68	57	-16%
Motorcycle Mechanic ● ■	203	186	148	141	117	131	12%
Natural Gas Compression Technician	28	24	19	14	7	5	-29%
Outdoor Power Equipment Technician	58	63	61	54	50	50	0%
Power	14	20	26	22	23	26	13%
Recreational	44	43	35	32	27	24	-11%
Painter and Decorator ■	95	120	78	61	55	44	-20%
Parts Technician	1,128	953	793	798	804	814	1%
Parts Technician ■	1,010	852	722	736	743	757	2%
Materials Technician	118	101	71	62	61	57	-7%
Plumber ● ■ (Note 5)	4,047	3,775	3,330	3,150	2,816	2,833	1%
Powerline Technician ■	882	672	528	448	336	343	2%
Power System Electrician	455	260	197	160	137	125	-9%
Recreation Vehicle Service Technician ● ■	157	151	138	129	120	118	-2%
Refrigeration and Air Conditioning Mechanic ● ■	822	844	795	877	891	951	7%
Rig Technician ● ■ (Note 6)	1,797	1,147	823	869	0	0	N/A
Roofer ■	190	217	220	201	181	178	-2%
Sheet Metal Worker ● ■	1,375	1,428	1,342	1,435	1,223	1,214	-1%
Sprinkler Systems Installer ■	338	322	285	240	194	199	3%
Steamfitter-Pipefitter ● ■	5,261	4,211	3,334	2,438	2,410	2,708	12%
Tilesetter ■ (Note 7)	20	11	11	5	2	0	-100%
Transport Refrigeration Technician	33	25	29	34	26	22	-15%
Water Well Driller	45	34	26	20	19	15	-21%
Welder	7,544	5,284	4,102	3,856	3,768	3,706	-2%
Welder ● ■	7,490	5,248	4,072	3,803	3,727	3,660	-2%
Wire Processor ●	54	36	30	53	41	46	12%
Total	67,955	58,337	50,611	48,206	44,115	44,928	2%

Source: Alberta Advanced Education

¹ Total number registered as of December 31, 2020. Apprentices may be registered in more than one apprenticeship program or branch of a program 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 2020, three of the 75 individuals registered in the refinisher branch of the auto body technician apprenticeship program were also registered in the repairer branch of that program.

Note 2: Effective January 1, 2015, the designation of auto glass technician as a branch of the glazier apprenticeship program was rescinded. Apprentices registered in the program before that date could continue in the program until December 31, 2016.

Note 3: Effective April 30, 2020, barber was designated as a branch of the hairstylist trade.

Note 4: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the apprenticeship program before that day can continue in the program until August 31, 2023.

Note 5: Effective August 3, 2017, plumber is being reported as a single parent apprenticeship program in accordance with the Plumber Trade Regulation. In prior Statistical Profiles, the plumber apprenticeship program 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.

Note 6: A request to de-designate the rig technician trade was received from the Canadian Association of Oilwell Drilling Contractors (CAODC) in January 2019. As part of the process to de-designate, active rig technician apprentices were notified in advance that their apprenticeship program registration would be cancelled on November 8, 2019. Effective May 1, 2020, the designation of the rig technician trade was rescinded.

Note 7: Effective April 30, 2020, the designation of the tilesetter trade was rescinded.

TABLE 3

New Apprentices Registered by Apprenticeship Program¹

APPRENTICESHIP PROGRAM	2015	2016	2017	2018	2019	2020	2019-20 % change
Agricultural Equipment Technician	57	33	47	68	54	33	-39%
Appliance Service Technician	19	27	29	29	31	42	35%
Appliance Service Technician	18	26	24	25	24	35	46%
Commercial Appliance Service Technician	1	1	5	4	7	7	0%
Auto Body Technician	176	208	183	215	163	115	-29%
Auto Body Technician	133	144	138	162	102	83	-19%
Auto Body Prepper	14	16	9	16	12	5	-58%
Auto Body Refinisher (Note 1)	22	32	23	22	31	20	-35%
Auto Body Repairer (Note 1)	7	16	13	15	18	7	-61%
Automotive Service Technician	856	712	766	848	804	620	-23%
Baker	62	57	68	61	37	31	-16%
Boilermaker	134	199	88	216	100	88	-12%
Bricklayer	64	53	36	20	16	32	100%
Cabinetmaker	71	80	90	80	68	35	-49%
Carpenter	935	758	758	745	620	517	-17%
Communication Technician	48	34	25	27	20	9	-55%
Concrete Finisher	38	18	16	12	10	4	-60%
Cook	348	321	275	239	209	141	-33%
Crane and Hoisting Equipment Operator	763	489	629	604	392	277	-29%
Boom Truck Operator	266	160	206	169	107	78	-27%
Mobile Crane Operator	261	188	145	124	150	116	-23%
Tower Crane Operator	38	12	17	34	15	22	47%
Wellhead Boom Truck Operator	198	129	261	277	120	61	-49%
Electric Motor Systems Technician	7	15	10	17	12	6	-50%
Electrician	2,956	1,923	1,809	1,761	1,363	1,097	-20%
Elevator Constructor	89	96	28	14	16	8	-50%
Floorcovering Installer	19	10	9	15	4	4	0%
Gasfitter	230	182	183	180	153	165	8%
Gasfitter A	180	141	135	130	95	79	-17%
Gasfitter B	50	41	48	50	58	86	48%
Glazier	84	87	93	63	62	40	-35%
Hairstylist	719	801	876	908	780	595	-24%
Barber (Note 2)	N/A	N/A	N/A	N/A	N/A	85	N/A
Hairstylist	719	801	876	908	780	510	-35%
Heavy Equipment Technician	1,305	849	1,116	1,508	1,506	811	-46%
Heavy Equipment Technician	854	548	751	1,054	1,015	482	-53%
Heavy Duty Equipment Mechanic (Off Road)	178	105	130	159	169	114	-33%
Transport Trailer Mechanic	57	45	47	52	83	29	-65%
Truck and Transport Mechanic	216	151	188	243	239	186	-22%
Industrial Mechanic (Millwright)	450	337	377	481	467	260	-44%
Instrumentation and Control Technician	418	354	391	410	319	202	-37%
Insulator (Heat and Frost)	252	276	290	262	55	55	0%
Ironworker	746	594	330	375	460	222	-52%
Ironworker (Generalist) (Note 3)	156	146	58	4	N/A	N/A	N/A
Ironworker (Metal Building Systems Erector)	40	21	23	32	68	25	-63%
Ironworker (Reinforcing)	188	123	180	264	275	130	-53%
Ironworker (Structural/Ornamental)	362	304	69	75	117	67	-43%
Landscape Horticulturist	44	49	42	31	42	40	-5%

(continued)

TABLE 3 (continued)

New Apprentices Registered by Apprenticeship Program¹

APPRENTICESHIP PROGRAM	2015	2016	2017	2018	2019	2020	2019-20 % change
Lather (Interior Systems Mechanic)	44	37	27	28	16	11	-31%
Locksmith	40	30	37	39	29	29	0%
Machinist	135	61	85	156	136	69	-49%
Metal Fabricator (Fitter)	37	22	26	25	22	9	-59%
Motorcycle Mechanic	66	49	38	49	29	30	3%
Natural Gas Compression Technician	5	4	0	4	0	0	N/A
Outdoor Power Equipment Technician	23	24	22	16	20	16	-20%
Power	4	8	12	5	9	11	22%
Recreational	19	16	10	11	11	5	-55%
Painter and Decorator	31	63	21	19	23	4	-83%
Parts Technician	342	246	219	301	261	163	-38%
Parts Technician	299	200	194	278	235	155	-34%
Materials Technician	43	46	25	23	26	8	-69%
Plumber <i>(Note 4)</i>	1,105	785	614	694	531	469	-12%
Powerline Technician	205	86	150	111	77	52	-32%
Power System Electrician	163	56	58	35	41	23	-44%
Recreation Vehicle Service Technician	52	47	36	36	30	30	0%
Refrigeration and Air Conditioning Mechanic	213	230	186	291	236	173	-27%
Rig Technician <i>(Note 5)</i>	323	77	86	194	31	N/A	N/A
Roofer	69	100	63	62	61	33	-46%
Sheet Metal Worker	386	384	318	387	235	152	-35%
Sprinkler Systems Installer	121	75	67	56	48	36	-25%
Steamfitter-Pipefitter	1,318	1,048	810	793	801	446	-44%
Tilesetter <i>(Note 6)</i>	6	2	3	0	0	0	N/A
Transport Refrigeration Technician	7	9	23	10	7	3	-57%
Water Well Driller	8	9	7	5	5	2	-60%
Welder	1,638	998	1,177	1,260	1,225	621	-49%
Welder	1,625	983	1,164	1,228	1,205	609	-49%
Wire Processor	13	15	13	32	20	12	-40%
Total	17,227	13,004	12,637	13,760	11,627	7,820	-33%

Source: Alberta Advanced Education

¹ New apprentices include all apprentices registering during a single calendar year. The number includes those who are returning to do an additional apprenticeship program after completing one or more apprenticeship programs in previous years, or continuing in a different apprenticeship program for which they registered in a previous year. Apprentices who registered in more than one apprenticeship program or branch of a program within a specific year, or who changed from one branch to another branch within the same program on the same day, are counted 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: In 2019, four of the 31 individuals registered in the refinisher branch of the auto body technician apprenticeship program were also registered in other branches of that program.

Note 2: Effective April 30, 2020, barber was designated as a branch of the hairstylist trade.

Note 3: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the apprenticeship program before that day can continue in the program until August 31, 2023.

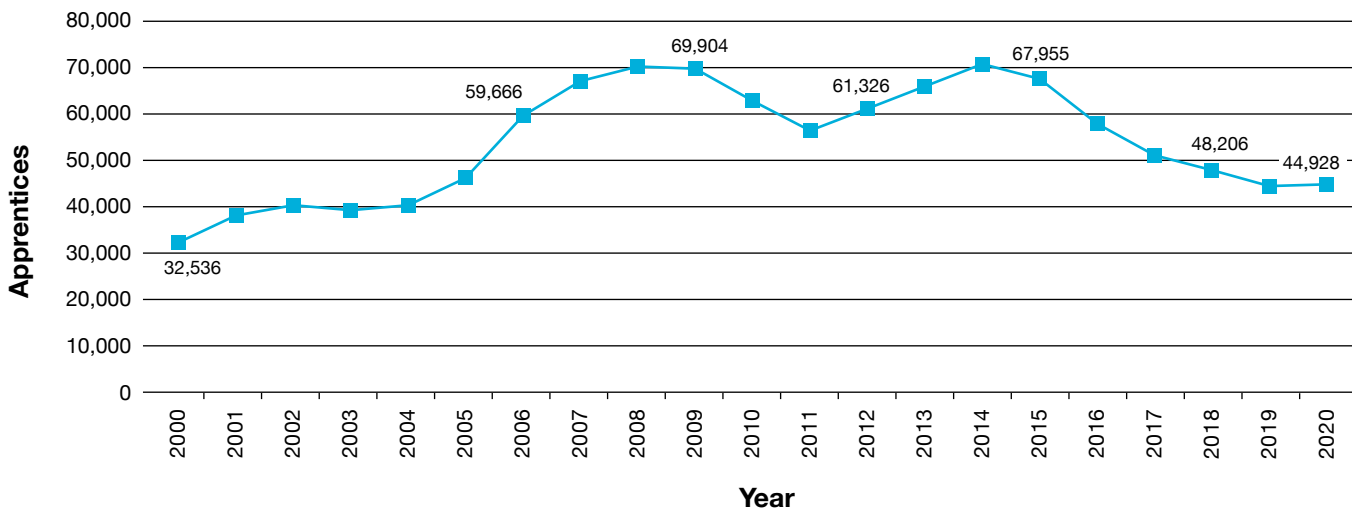
Note 4: Effective August 3, 2017, plumber is being reported as a single parent apprenticeship program in accordance with the Plumber Trade Regulation. In prior Statistical Profiles, the plumber apprenticeship program data was divided by 'plumber & gasfitter B' and 'plumber' to distinguish between plumber apprentices who received their gasfitter B certification through their plumber apprenticeship program and those who had previously obtained their gasfitter B certification.

Note 5: A request to de-designate the rig technician trade was received from the Canadian Association of Oilwell Drilling Contractors (CAODC) in January 2019. As part of the process to de-designate, active rig technician apprentices were notified in advance that their apprenticeship program registration would be cancelled on November 8, 2019. The 31 apprentices with new registrations in 2019 were subsequently cancelled by November 8, 2019. Effective May 1, 2020, the designation of the rig technician trade was rescinded.

Note 6: Effective April 30, 2020, the designation of the tilesetter trade was rescinded.

CHART 2

Total Number of Apprentices Registered by Year¹

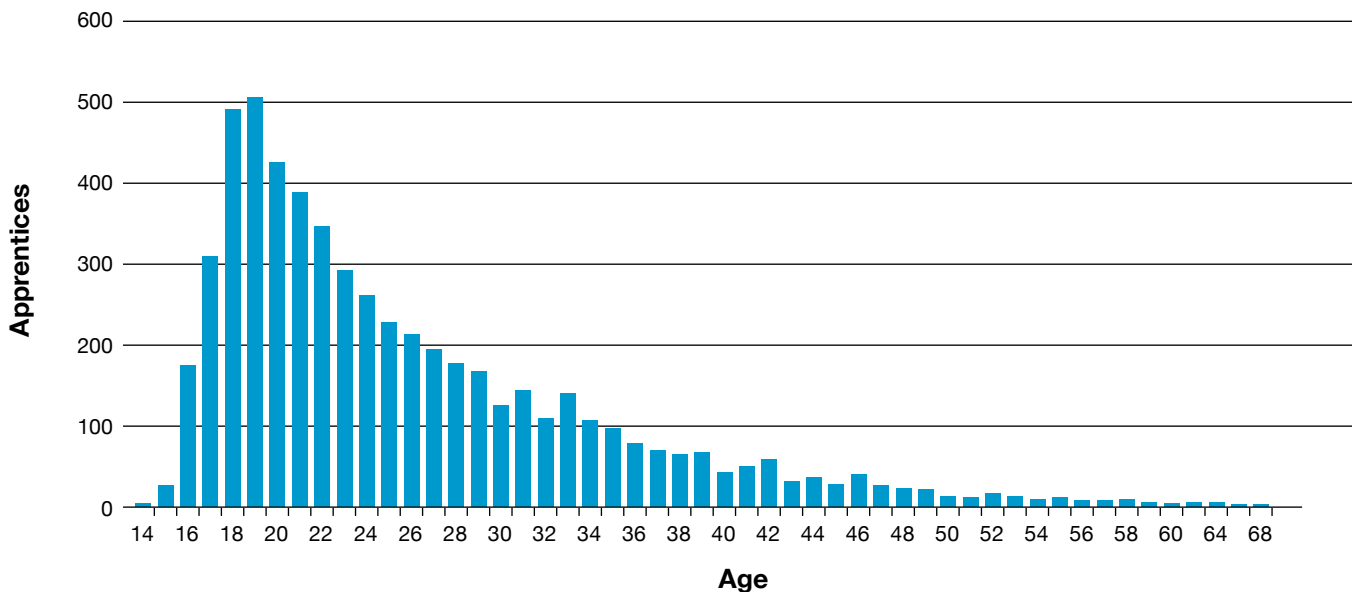


Source: Alberta Advanced Education

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 Apprenticeship Program, 2020¹



Total number of Alberta apprentices registering in their first apprenticeship program in 2020 = 5,618²

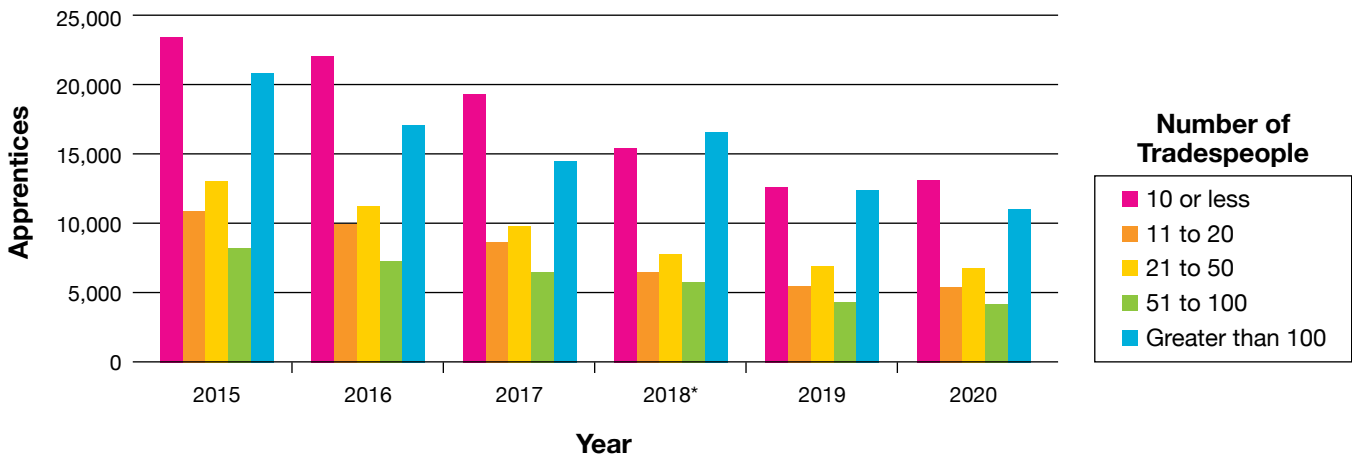
Source: Alberta Advanced Education

¹ Age at date of registration.

² The 5,618 total in the chart above includes only individuals registering in their first apprenticeship program in Alberta in 2020. This number differs from the total number of new apprentices registered (7,820) as presented in Table 3. In Table 3, the number of new apprentices registered includes those who are returning to do an additional apprenticeship program after completing one or more apprenticeship programs in previous years.

CHART 4

Total Apprentices Being Trained by Employer Size¹



Source: Alberta Advanced Education

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

* Prior to 2018, this chart reflected a count of 'sites' instead of 'employers'. If an employer had multiple work locations, each location was counted as a separate 'site'. As of 2018, the report counts 'employers' instead of 'sites'. All sites of a specific employer are combined and counted as a single 'employer'.

TABLE 4

Total Number of Individuals Certified by Program, 2020¹

APPRENTICESHIP PROGRAM	Apprentices Issued Journeyman Certificates and Trainees Issued Occupation Certificates	Apprentices and Trainees Issued Red Seal Endorsement (Note 1)	Individuals Issued Qualification Certificates (Note 2)	Other Individuals Issued Red Seal Endorsement (Note 3)
Agricultural Equipment Technician	16	13	3	3
Appliance Service Technician	9	8	7	6
Appliance Service Technician	9	8	6	6
Commercial Appliance Service Technician	0	N/A	1	N/A
Auto Body Technician	58	45	6	5
Auto Body Technician	34	7	5	4
Auto Body Prepper	2	N/A	0	N/A
Auto Body Refinisher	19	38	1	1
Auto Body Repairer	3	N/A	0	N/A
Automotive Service Technician	256	231	21	20
Baker	15	10	4	4
Boilermaker	36	34	1	1
Bricklayer	17	9	0	0
Cabinetmaker	13	13	2	2
Carpenter	223	142	6	6
Communication Technician	5	N/A	0	N/A
Concrete Finisher	8	7	0	0
Cook	63	41	33	29

(continued)

TABLE 4 (continued)

Total Number of Individuals Certified by Program, 2020¹

APPRENTICESHIP PROGRAM	Apprentices Issued Journeyman Certificates and Trainees Issued Occupation Certificates	Apprentices and Trainees Issued Red Seal Endorsement <i>(Note 1)</i>	Individuals Issued Qualification Certificates <i>(Note 2)</i>	Other Individuals Issued Red Seal Endorsement <i>(Note 3)</i>
Crane and Hoisting Equipment Operator	112	53	3	1
Boom Truck Operator	31	N/A	2	N/A
Mobile Crane Operator	55	52	0	0
Tower Crane Operator	2	1	1	1
Wellhead Boom Truck Operator	24	N/A	0	N/A
Electric Motor Systems Technician	1	1	1	1
Electrician	839	370	16	15
Elevator Constructor	57	N/A	1	N/A
Floorcovering Installer	1	1	0	0
Gasfitter	45	217	15	10
Gasfitter A	33	13	6	3
Gasfitter B	12	204	9	7
Glazier	20	19	0	0
Hairstylist	168	89	56	46
Barber <i>(Note 4)</i>	0	N/A	0	N/A
Hairstylist	168	89	56	46
Heavy Equipment Technician	476	368	55	50
Heavy Equipment Technician	276	N/A	7	N/A
Heavy Duty Equipment Mechanic (Off Road)	90	115	20	20
Transport Trailer Mechanic	19	N/A	1	N/A
Truck and Transport Mechanic	91	253	27	30
Industrial Mechanic (Millwright)	170	139	9	8
Instrumentation and Control Technician	117	48	7	6
Insulator (Heat and Frost)	41	29	0	0
Ironworker	67	26	18	13
Ironworker (Generalist) <i>(Note 5)</i>	10	3	0	0
Ironworker (Metal Building Systems Erector)	2	N/A	2	N/A
Ironworker (Reinforcing)	14	10	8	7
Ironworker (Structural/Ornamental)	41	13	8	6
Landscape Horticulturist	19	18	1	0
Lather (Interior Systems Mechanic)	11	11	7	7
Locksmith	16	0	0	N/A
Machinist	25	16	0	0
Metal Fabricator (Fitter)	2	2	2	1
Motorcycle Mechanic	11	10	4	4
Natural Gas Compression Technician	0	N/A	0	N/A
Outdoor Power Equipment Technician	6	N/A	2	N/A
Power	3	N/A	1	N/A
Recreational	3	N/A	1	N/A
Painter and Decorator	2	0	3	3
Parts Technician	90	60	14	11
Parts Technician	86	60	13	11
Materials Technician	4	N/A	1	N/A

(continued)

TABLE 4 (continued)

Total Number of Individuals Certified by Program, 2020¹

APPRENTICESHIP PROGRAM	Apprentices Issued Journeyman Certificates and Trainees Issued Occupation Certificates	Apprentices and Trainees Issued Red Seal Endorsement <i>(Note 1)</i>	Individuals Issued Qualification Certificates <i>(Note 2)</i>	Other Individuals Issued Red Seal Endorsement <i>(Note 3)</i>
Plumber	318	78	5	5
Powerline Technician	38	36	2	2
Power System Electrician	14	N/A	4	N/A
Recreation Vehicle Service Technician	28	21	2	2
Refrigeration and Air Conditioning Mechanic	82	61	0	0
Rig Technician <i>(Note 6)</i>	3	3	0	0
Roofer	28	19	5	3
Sheet Metal Worker	81	29	0	0
Sprinkler Systems Installer	20	19	0	0
Steamfitter-Pipefitter	51	30	19	15
Tilesetter <i>(Note 7)</i>	0	0	0	0
Transport Refrigeration Technician	1	N/A	0	N/A
Water Well Driller	1	N/A	1	N/A
Welder	360	271	25	23
Welder	355	271	24	23
Wire Processor	5	N/A	1	N/A
Total - Trades	4,040	2,597	360	302
Cathodic Protection Technician	15	N/A	N/A	N/A
Construction Craft Worker	1	0	N/A	1
Field Heat Treatment Technician	10	N/A	N/A	N/A
Gas Utility Operator	9	N/A	N/A	N/A
Industrial Construction Crew Supervisor	27	N/A	N/A	N/A
Oil and Gas Transportation Services	0	N/A	N/A	N/A
Overhead Door Technician	2	N/A	N/A	N/A
Residential Construction Site Manager	0	N/A	N/A	N/A
Slickline Services	0	N/A	N/A	N/A
Snubbing Services	0	N/A	N/A	N/A
Steel Detailer	0	N/A	N/A	N/A
Well Testing Services Supervisor	0	N/A	N/A	N/A
Total - Occupations	64	0	N/A	1
TOTAL	4,104	2,597	360	303

Source: Alberta Advanced Education

¹ Individuals issued more than one certificate in 2020 are counted here only once.

N/A = Not Applicable.

Note 1: This number includes the number of completed apprentices and trainees issued a red seal endorsement in 2020 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: Red seal endorsements are also issued to individuals other than those who have completed an Alberta apprenticeship or occupational training program. The number includes individuals issued a red seal endorsement 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 April 30, 2020, barber was designated as a branch of the hairstylist trade.

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

Note 6: Effective May 1, 2020, the designation of the rig technician trade was rescinded.

Note 7: Effective April 30, 2020, the designation of the tilesetter trade was rescinded.

TABLE 5

Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Program¹

PROGRAM	2015	2016	2017	2018	2019	2020	2019-20 % change
Agricultural Equipment Technician	20	33	33	27	34	19	-44%
Appliance Service Technician	14	13	18	10	12	16	33%
Appliance Service Technician	8	11	16	8	11	15	36%
Commercial Appliance Service Technician	6	2	2	2	1	1	0%
Auto Body Technician	100	100	97	95	107	64	-40%
Auto Body Technician	49	42	55	44	64	39	-39%
Auto Body Prepper	4	3	3	2	4	2	-50%
Auto Body Refinisher	30	36	35	37	31	20	-35%
Auto Body Repairer	17	19	4	12	8	3	-63%
Automotive Service Technician	485	443	401	499	486	277	-43%
Baker	44	36	40	32	35	19	-46%
Boilermaker	71	80	71	74	56	37	-34%
Bricklayer	29	27	22	22	23	17	-26%
Cabinetmaker	48	30	23	32	30	15	-50%
Carpenter	435	368	377	359	394	229	-42%
Communication Technician	10	8	15	7	9	5	-44%
Concrete Finisher	19	24	17	17	10	8	-20%
Cook	306	217	206	176	143	96	-33%
Crane and Hoisting Equipment Operator	557	517	412	293	270	115	-57%
Boom Truck Operator	188	150	111	84	79	33	-58%
Mobile Crane Operator	172	279	207	112	70	55	-21%
Tower Crane Operator	11	14	15	11	16	3	-81%
Wellhead Boom Truck Operator	186	74	79	86	105	24	-77%
Electric Motor Systems Technician	8	7	8	3	6	2	-67%
Electrician	1,545	1,641	1,648	1,673	1,570	855	-46%
Elevator Constructor	20	24	32	39	63	58	-8%
Floorcovering Installer	0	6	3	7	2	1	-50%
Gasfitter	90	115	141	112	103	60	-42%
Gasfitter A	74	97	109	86	73	39	-47%
Gasfitter B	16	18	32	26	30	21	-30%
Glazier	30	32	31	37	31	20	-35%
Glazier	30	32	31	37	31	20	-35%
Auto Glass Technician <i>(Note 1)</i>	0	0	N/A	N/A	N/A	N/A	N/A
Hairstylist	528	538	540	562	579	224	-61%
Barber	N/A	N/A	N/A	N/A	N/A	0	N/A
Hairstylist <i>(Note 2)</i>	528	538	540	562	579	224	-61%
Heavy Equipment Technician	1,012	1,100	1,146	938	916	531	-42%
Heavy Equipment Technician	611	715	753	569	524	283	-46%
Heavy Duty Equipment Mechanic (Off Road)	161	159	155	164	169	110	-35%
Transport Trailer Mechanic	40	36	39	37	39	20	-49%
Truck and Transport Mechanic	200	190	199	168	184	118	-36%

(continued)

TABLE 5 (continued)

Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Program¹

PROGRAM	2015	2016	2017	2018	2019	2020	2019-20 % change
Industrial Mechanic (Millwright)	284	423	443	335	274	179	-35%
Instrumentation and Control Technician	291	323	332	259	238	124	-48%
Insulator (Heat and Frost)	90	96	81	92	117	41	-65%
Ironworker	197	151	168	166	146	85	-42%
Ironworker (Generalist) <i>(Note 3)</i>	17	14	25	26	24	10	-58%
Ironworker (Metal Building Systems Erector)	16	25	14	10	15	4	-73%
Ironworker (Reinforcing)	48	32	27	44	24	22	-8%
Ironworker (Structural/Ornamental)	116	80	102	86	83	49	-41%
Landscape Horticulturist	21	17	25	21	30	20	-33%
Lather (Interior Systems Mechanic)	10	18	13	16	4	18	350%
Locksmith	4	10	13	17	15	16	7%
Machinist	87	129	112	74	63	25	-60%
Metal Fabricator (Fitter)	22	18	27	15	8	4	-50%
Motorcycle Mechanic	35	34	23	29	29	15	-48%
Natural Gas Compression Technician	3	2	6	6	6	0	-100%
Outdoor Power Equipment Technician	10	9	8	6	10	8	-20%
Power	5	2	4	0	3	4	33%
Recreational	5	7	4	6	7	4	-43%
Painter and Decorator	15	19	24	11	13	5	-62%
Parts Technician	223	205	209	180	136	104	-24%
Parts Technician	205	181	191	171	126	99	-21%
Materials Technician	18	24	18	9	10	5	-50%
Plumber <i>(Note 4)</i>	446	409	420	505	522	323	-38%
Powerline Technician	170	162	240	155	107	40	-63%
Power System Electrician	88	96	45	44	36	18	-50%
Recreation Vehicle Service Technician	13	22	23	30	17	30	76%
Refrigeration and Air Conditioning Mechanic	131	122	121	116	127	82	-35%
Rig Technician <i>(Note 5)</i>	246	159	54	73	26	3	-88%
Roofer	39	28	38	41	30	33	10%
Sheet Metal Worker	130	90	96	113	141	81	-43%
Sprinkler Systems Installer	26	43	37	53	41	20	-51%
Steamfitter-Pipefitter	675	822	844	868	203	70	-66%
Tilesetter <i>(Note 6)</i>	2	2	1	0	1	0	-100%
Transport Refrigeration Technician	3	9	5	3	6	1	-83%
Water Well Driller	7	13	13	6	5	2	-60%
Welder	1,636	1,437	1,301	893	623	385	-38%
Welder	1,624	1,430	1,296	889	618	379	-39%
Wire Processor	12	7	5	4	5	6	20%
Total - Trades	10,275	10,227	10,003	9,141	7,853	4,400	-44%

(continued)

TABLE 5 (continued)

Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Program¹

PROGRAM	2015	2016	2017	2018	2019	2020	2019-20 % change
Cathodic Protection Technician	108	56	39	39	28	15	-46%
Construction Craft Worker <i>(Note 7)</i>	9	9	4	3	3	1	-67%
Field Heat Treatment Technician	16	10	7	10	12	10	-17%
Gas Utility Operator	16	20	20	21	7	9	29%
Industrial Construction Crew Supervisor	255	239	202	78	53	27	-49%
Oil and Gas Transportation Services	0	0	2	0	0	0	N/A
Overhead Door Technician	1	0	6	8	3	2	-33%
Residential Construction Site Manager	0	1	2	1	1	0	-100%
Slickline Services	0	0	0	0	0	0	N/A
Snubbing Services	1	2	1	0	0	0	N/A
Steel Detailer	0	0	0	0	0	0	N/A
Well Testing Services Supervisor	0	0	4	0	0	0	N/A
Total - Occupations	406	337	287	160	107	64	-40%
TOTAL	10,681	10,564	10,290	9,301	7,960	4,464	-44%

Source: Alberta Advanced Education

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

N/A = Not Applicable. Data is not applicable or does not exist.

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

Note 2: Effective April 30, 2020, barber was designated as a branch of the hairstylist trade.

Note 3: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the apprenticeship program before that day can continue in the program until August 31, 2023.

Note 4: Effective August 3, 2017, plumber is being reported as a single parent apprenticeship program in accordance with the Plumber Trade Regulation. In prior Statistical Profiles, the plumber apprenticeship program 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.

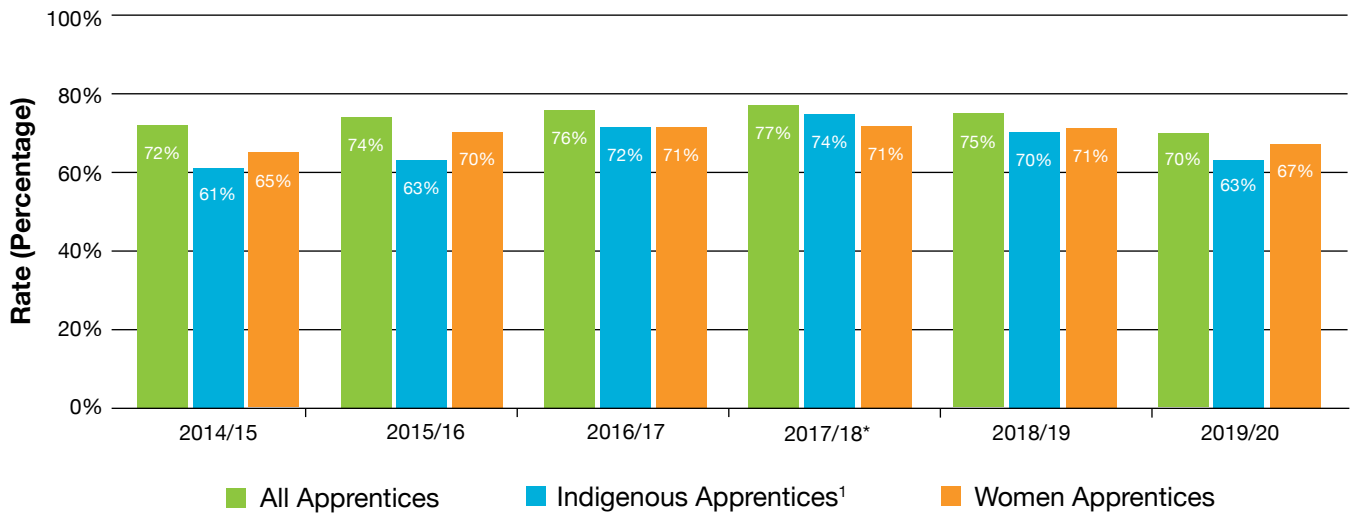
Note 5: A request to de-designate the rig technician trade was received from the Canadian Association of Oilwell Drilling Contractors (CAODC) in January 2019. As part of the process to de-designate, active rig technician apprentices were notified in advance that their apprenticeship program registration would be cancelled on November 8, 2019. Effective May 1, 2020, the designation of the rig technician trade was rescinded.

Note 6: Effective April 30, 2020, the designation of the tilesetter trade was rescinded.

Note 7: Effective September 1, 2018, the name of the construction craft labourer occupation was changed to construction craft worker.

CHART 5

Apprentice Completion Rate by Year



Source: Alberta Advanced Education

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.

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 their apprenticeship program (including taking the first period of apprenticeship classroom instruction, on-the-job learning and period exams) and went on to complete their program within two years past the normally expected completion date. Apprentices who challenge the first period exam are not included in the cohort.

* Prior to 2017/18, apprentices who received credit for their first period of classroom instruction were not included in the cohort. As of 2017/18, the completion cohort includes apprentices who received credit for a first period of classroom instruction as a result of completing eligible programs in Career and Technology Studies: Apprenticeship Pathways, pre-employment or certificate/diploma programs. As a result, the 2017/18 completion rates are not comparable with previous years. Apprentices who receive credit comprise approximately 9% of the total cohort.

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

TABLE 6

Classroom Instruction Attendance by Institution and School Year¹

INSTITUTION	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21 ^{1,2}
Delmar College of Hair Design (Note 1)	89	57	67	67	28	55
Grande Prairie Regional College	1,570	1,298	1,067	978	668	889
Keyano College	798	643	569	496	351	423
Lakeland College	1,397	1,053	891	756	474	607
Lethbridge College	1,035	924	836	815	628	777
MC College (Note 1)	79	73	65	73	27	30
Medicine Hat College	705	528	452	343	218	303
Northern Alberta Institute of Technology	14,411	12,932	10,350	8,986	5,164	6,614
Northern Lakes College	259	148	152	98	39	24
Olds College	400	336	235	222	225	264
Portage College	155	109	66	56	35	40
Red Deer College	3,462	2,881	2,214	1,848	1,252	1,502
Southern Alberta Institute of Technology	9,158	8,294	6,972	6,337	4,101	5,322
Other Providers (Note 2)	533	470	397	303	146	99
TOTAL	34,051	29,746	24,333	21,378	13,356	16,949

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 2020/21 school year. The data for this year is the attendance as of the date of February 10, 2021.

² In 2020, some classroom instruction was disrupted by the COVID-19 pandemic.

Note 1: Delmar College and MC College (formerly Marvel College) provide classroom instruction for hairstylists. The hairstylist apprenticeship program is a two-year program.

Note 2: 'Other' providers may not provide apprenticeship classroom instruction every year. Other providers for 2020/21 include:
Alberta Carpenters Training Centre - provides classroom instruction for its carpenters
Edmonton Pipe Trades Educational Trust - provides classroom instruction for its plumbers, steamfitter-pipefitters and welders
Enform - (previously Petroleum Industry Training Service) provides classroom instruction for the wellhead boom truck branch of the crane and hoisting equipment operator program
FortisAlberta Inc. - (previously Aquila Networks Canada, Utilicorp Networks Canada and Trans Alta Utilities) provides classroom instruction for its powerline technician apprentices.

TABLE 7

Total Number of Apprentices Registered by Apprenticeship Program and Period (or Year) of Classroom Instruction, 2020¹

APPRENTICESHIP PROGRAM	1st Period	2nd Period	3rd Period	4th Period	CI Completed (Note 1)	Total Apprentices
Agricultural Equipment Technician	63	35	39	17	16	170
Appliance Service Technician	55	29	21	N/A	6	111
Appliance Service Technician	43	26	21	N/A	3	93
Commercial Appliance Service Technician	12	3	N/A*	N/A	3	18
Auto Body Technician	187	177	134	102	32	632
Auto Body Technician	119	135	122	102	12	490
Auto Body Prepper	11	N/A*	N/A	N/A	12	23
Auto Body Refinisher	41	29	N/A	N/A	5	75
Auto Body Repairer	16	13	12	N/A	3	44
Automotive Service Technician	1,138	847	674	545	149	3,353
Baker	47	20	28	N/A	44	139
Boilermaker	207	238	78	N/A	14	537
Bricklayer	50	7	32	N/A	6	95
Cabinetmaker	76	53	68	49	4	250
Carpenter	986	693	346	465	72	2,562
Communication Technician	36	8	8	19	2	73
Concrete Finisher	13	3	N/A*	N/A	4	20
Cook	248	154	144	N/A	120	666
Crane and Hoisting Equipment Operator	959	N/A*	247	N/A	116	1,322
Boom Truck Operator	312	N/A	N/A	N/A	19	331
Mobile Crane Operator	215	N/A*	247	N/A	40	502
Tower Crane Operator	55	N/A*	N/A	N/A	5	60
Wellhead Boom Truck Operator	377	N/A	N/A	N/A	52	429
Electric Motor Systems Technician	10	9	13	9	0	41
Electrician	1,991	1,827	1,755	2,140	252	7,965
Elevator Constructor	0	0	0	111	33	144
Floorcovering Installer	11	5	N/A	N/A	1	17
Gasfitter	163	162	170	N/A	35	530
Gasfitter A	54	98	170	N/A	19	341
Gasfitter B	109	64	N/A	N/A	16	189
Glazier	72	60	55	41	15	243
Hairstylist	1,164	253	N/A	N/A	1,079	2,496
Barber (Note 2)	83	N/A	N/A	N/A	7	90
Hairstylist	1,081	253	N/A	N/A	1,072	2,406
Heavy Equipment Technician	1,831	1,045	1,231	536	320	4,963
Heavy Equipment Technician	1,193	773	867	536	209	3,578
Heavy Duty Equipment Mechanic (Off Road)	194	104	137	N/A	34	469
Transport Trailer Mechanic	112	N/A*	N/A	N/A	30	142
Truck and Transport Mechanic	332	168	227	N/A	47	774
Industrial Mechanic (Millwright)	595	374	308	281	45	1,603
Instrumentation and Control Technician	392	226	178	213	202	1,211
Insulator (Heat and Frost)	144	99	138	N/A	31	412
Ironworker	777	190	76	9	15	1,067
Ironworker (Generalist) (Note 3)	4	1	9	9	2	25
Ironworker (Metal Building Systems Erector)	90	13	N/A	N/A	2	105
Ironworker (Reinforcing)	491	65	N/A	N/A	1	557
Ironworker (Structural/Ornamental)	192	111	67	N/A	10	380

(continued)

TABLE 7 (continued)

Total Number of Apprentices Registered by Apprenticeship Program and Period (or Year) of Classroom Instruction, 2020¹

APPRENTICESHIP PROGRAM	1st Period	2nd Period	3rd Period	4th Period	CI Completed (Note 1)	Total Apprentices
Landscape Horticulturist	64	26	12	21	4	127
Lather (Interior Systems Mechanic)	44	1	10	N/A	1	56
Locksmith	63	30	32	N/A	5	130
Machinist	155	121	94	99	11	480
Metal Fabricator (Fitter)	15	19	19	N/A	4	57
Motorcycle Mechanic	41	33	25	20	12	131
Natural Gas Compression Technician	0	0	1	4	0	5
Outdoor Power Equipment Technician	28	12	6	N/A	4	50
Power	17	4	2	N/A	3	26
Recreational	11	8	4	N/A	1	24
Painter and Decorator	28	10	4	N/A	2	44
Parts Technician	320	280	175	N/A	39	814
Parts Technician	304	257	162	N/A	34	757
Materials Technician	16	23	13	N/A	5	57
Plumber	797	622	716	601	97	2,833
Powerline Technician	123	87	77	N/A*	56	343
Power System Electrician	25	18	41	26	15	125
Recreation Vehicle Service Technician	67	19	18	N/A	14	118
Refrigeration and Air Conditioning Mechanic	236	311	197	178	29	951
Rig Technician (Note 4)	0	0	0	N/A	0	0
Roofer	73	54	39	N/A*	12	178
Sheet Metal Worker	466	220	268	224	36	1,214
Sprinkler Systems Installer	70	59	62	N/A*	8	199
Steamfitter-Pipefitter	1,157	591	577	331	52	2,708
Tilesetter (Note 5)	0	0	N/A*	N/A	0	0
Transport Refrigeration Technician	12	6	3	N/A	1	22
Water Well Driller	8	6	N/A	N/A	1	15
Welder	1,694	846	963	N/A	203	3,706
Welder	1,655	846	963	N/A	196	3,660
Wire Processor	39	N/A*	N/A	N/A	7	46
Total	16,701	9,885	9,082	6,041	3,219	44,928

Source: Alberta Advanced Education

¹ These statistics are as of December 31, 2020.

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

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

Note 1: 'CI Completed' counts apprentices who have completed, or who have been granted credit for, all classroom instruction (CI) requirements in their apprenticeship program. Industry examination and/or work experience/on-the-job learning requirements for the apprenticeship program have yet to be successfully completed.

Note 2: Effective April 30, 2020, barber was designated as a branch of the hairstylist trade.

Note 3: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the apprenticeship program before that day can continue in the program until August 31, 2023.

Note 4: A request to de-designate the rig technician trade was received from the Canadian Association of Oilwell Drilling Contractors (CAODC) in January 2019. As part of the process to de-designate, active rig technician apprentices were notified in advance that their apprenticeship program registration would be cancelled on November 8, 2019. Effective May 1, 2020, the designation of the rig technician trade was rescinded.

Note 5: Effective April 30, 2020, the designation of the tilesetter trade was rescinded.

TABLE 8

Number of Apprentices Registered, Certified and Attending Classroom Instruction by Apprenticeship and Industry Training Office¹, 2020²

OFFICE/REGION	Total Apprentices Registered	New Apprentices Registered	Apprentices Certified	Classroom Instruction Attendance ³
Bonnyville	805	149	66	199
Calgary	12,740	2,262	1,201	3,691
Edmonton	17,725	2,990	1,606	4,418
Fort McMurray	1,525	239	153	509
Grande Prairie	2,754	465	188	597
Hinton	1,152	232	101	307
Lethbridge	1,864	347	185	647
Medicine Hat	1,012	169	104	306
Peace River	614	130	57	182
Red Deer	3,272	537	244	981
Slave Lake	631	128	39	179
Vermilion	834	172	96	264
Total - Office Regions	44,928	7,820	4,040	12,280
Interprovincial - Classroom Instruction Only <i>(Note 1)</i>	N/A	N/A	N/A	187
Interprovincial/International - Classroom Instruction and Certification <i>(Note 2)</i>	0	0	0	0
Total - Other	0	0	0	187
TOTAL	44,928	7,820	4,040	12,467

Source: Alberta Advanced Education

(Notes 3 & 4)

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

² This table represents statistics covering the January to December 2020 calendar year. Classroom instruction in Table 6 is reported as school year. For this table only, the classroom instruction statistics cover the calendar year for comparability within this table.

³ Attendance reflects the number of classroom instruction seats occupied.

Note 1: Alberta provides classroom instruction for apprentices from other Canadian provinces and territories where the apprenticeship program is designated but the jurisdictions are unable to provide classroom instruction 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 classroom instruction to people from jurisdictions where no apprenticeship program exists. Alberta issues a certificate on completion of the program.

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

- Apprentices do not normally attend classroom instruction until they have had at least eight to 10 months of on-the-job learning 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 classroom instruction.
- Some have successfully completed all of the classroom instruction and have only the required on-the-job learning 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 classroom instruction.

Note 4: In 2020, some classroom instruction was disrupted by the COVID-19 pandemic.

TABLE 9

Number of Committee Meetings by Designated Trade/Occupation and Year

DESIGNATED TRADE/ OCCUPATION	Provincial Apprenticeship Committee (Full, Sub and Special) and Occupational Committee Meetings <i>(Notes 1 & 2)</i>							Local Apprenticeship Committee Meetings <i>(Note 3)</i>							
	2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	2018	2019	2020	Total	Number of LACs
Agricultural Equipment Technician	1	3	3	4	2	2	15								0
Appliance Service Technician	7	3	1	1	1	1	14	0	0					0	0
Auto Body Technician	9	8	3	1	1	1	23	0	0	1	0	2	0	3	2
Automotive Service Technician	3	10	8	3	1	4	29	6	4	7	6	3	0	26	7
Baker	4	3	1	1	1	1	11	1	3	2	3	2	0	11	2
Boilermaker	2	3	7	4	3	3	22								0
Bricklayer	5	2	1	1	1	1	11	3	3	2	2	2	1	13	2
Cabinetmaker	2	2	3	2	2	3	14	3	0	0	3	4	0	10	2
Carpenter	8	1	3	8	6	3	29	6	2	4	9	10	1	32	7
Communication Technician	4	1	2	2	5	2	16	2	2	2	2	1	1	10	2
Concrete Finisher	1	1	3	2	1	1	9								0
Cook	5	2	2	1	5	3	18	3	4	4	4	4	1	21	3
Crane and Hoisting Equipment Operator	5	4	6	0	3	1	19	0	0	1	0	1	0	2	3
Electric Motor Systems Technician	6	7	4	1	0	4	22	1						1	0
Electrician	4	9	3	4	4	10	34	6	6	8	6	8	5	39	9
Elevator Constructor	3	4	4	5	1	0	17								0
Floorcovering Installer	0	3	4	2	0	0	9								0
Gasfitter	12	8	12	3	2	2	39	1	3	0	2	3	0	9	2
Glazier	2	3	2	3	3	2	15	1	0	3	2	2	2	10	2
Hairstylist	3	5	4	9	4	7	32	8	6	7	9	3	9	42	8
Heavy Equipment Technician	8	4	10	7	2	5	36	7	4	8	13	0	6	38	8
Industrial Mechanic (Millwright)	4	8	6	7	3	2	30	2	3	0	0	2	0	7	3
Instrumentation and Control Technician	4	3	10	1	2	2	22	0	0	1	0	0	1	2	1
Insulator (Heat and Frost)	3	0	7	4	2	1	17								0
Ironworker	9	5	3	3	4	0	24								0
Landscape Horticulturist	2	3	7	9	2	1	24	0	1	2	1	2	0	6	1
Lather (Interior Systems Mechanic)	2	1	10	3	2	1	19								0
Locksmith	9	9	2	3	2	2	27	0	1	1	1	1	0	4	1
Machinist	3	2	6	8	5	3	27	2	3	1	2	1	2	11	2
Metal Fabricator (Fitter)	1	1	0	0	2	0	4								0
Motorcycle Mechanic	2	1	1	1	0	1	6	2	0	0	2	0	0	4	2
Natural Gas Compression Technician	1	0	0	0	0	0	1								0
Outdoor Power Equipment Technician	0	2	1	1	2	1	7								0
Painter and Decorator	1	9	6	3	0	1	20	1	1					2	0
Parts Technician	4	4	2	3	2	0	15	3	1	2	3	1	0	10	3
Plumber	5	12	12	11	1	1	42	3	3	3	2	1	0	12	4
Powerline Technician	8	2	1	7	7	11	36	1	2	2	2	1	1	9	2
Power System Electrician	7	4	1	3	6	5	26								0
Recreation Vehicle Service Technician	4	0	0	1	0	0	5	0	0	1	2	1	0	4	2
Refrigeration and Air Conditioning Mechanic	4	9	2	5	1	3	24	2	1	2	2	1	1	9	2

(continued)

TABLE 9 (continued)

Number of Committee Meetings by Designated Trade/Occupation and Year

DESIGNATED TRADE/ OCCUPATION	Provincial Apprenticeship Committee (Full, Sub and Special) and Occupational Committee Meetings <i>(Notes 1 & 2)</i>							Local Apprenticeship Committee Meetings <i>(Note 3)</i>							
	2015	2016	2017	2018	2019	2020	Total	2015	2016	2017	2018	2019	2020	Total	Number of LACs
Rig Technician	3	2	2	1	0	0	8								0
Roofer	0	1	2	3	0	1	7								0
Sheet Metal Worker	4	12	13	5	1	4	39	1	3	0	4	4	2	14	4
Sprinkler Systems Installer	5	3	4	6	4	4	26	1	0	1	1	0	0	3	1
Steamfitter-Pipefitter	13	9	10	10	2	2	46	1	2	1	3	1	2	10	3
Tilesetter	0	2	0	0	0	0	2								0
Transport Refrigeration Technician	2	4	1	2	2	3	14								0
Water Well Driller	2	2	1	1	0	0	6								0
Welder	7	2	3	4	3	2	21	4	5	9	5	6	0	29	8
Total Meetings - Trades <i>(Note 4)</i>	195	191	186	163	100	105	940	72	63	75	91	67	35	403	98
Cathodic Protection Technician	2	2	1	2	1	1	9								
Construction Craft Worker	2	2	0	2	0	0	6								
Field Heat Treatment Technician	0	1	1	1	1	0	4								
Gas Utility Operator	2	3	0	1	2	0	8								
Industrial Construction Crew Supervisor	3	1	3	1	1	0	9								
Oil and Gas Transportation Services <i>(Note 5)</i>															
Overhead Door Technician	9	2	1	1	1	0	14								
Petroleum Competency Program Steering Committee <i>(Note 5)</i>	0	0	0	0	0	0	0								
Residential Construction Site Manager	0	0	3	1	1	0	5								
Slickline Services <i>(Note 5)</i>															
Snubbing Services <i>(Note 5)</i>															
Steel Detailer	7	0	0	1	0	0	8								
Well Testing Services Supervisor <i>(Note 5)</i>															
Total - Occupations	25	11	9	10	7	1	63								

Source: Alberta Advanced Education

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

Note 1: There is one provincial apprenticeship committee for each parent designated trade and one occupational committee for each designated occupation. For the exception to this, see Note 5 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 designated trade. The number of LACs for each designated trade as of December 31, 2020 is indicated in the 'Number of LACs' column. Some designated trades do not have any LACs. The number of LAC meetings reflected in the table for each designated trade adds together the meetings of all the LACs in the province for that designated trade.

Note 4: 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: 2015 - 3; 2016 - 10; 2017 - 11; 2018 - 4; 2019 - 3; 2020 - 1.

Note 5: 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 Apprenticeship Program¹, 2020

APPRENTICESHIP PROGRAM	High School	Full Time	Certified (Note 1)
Agricultural Equipment Technician	11	38	76
Appliance Service Technician	0	2	6
Appliance Service Technician	0	2	6
Commercial Appliance Service Technician	0	0	0
Auto Body Technician	16	67	125
Auto Body Technician	13	63	43
Auto Body Prepper	1	0	0
Auto Body Refinisher	2	2	46
Auto Body Repairer	0	2	36
Automotive Service Technician	90	312	630
Baker	5	9	17
Boilermaker	0	0	1
Bricklayer	3	3	18
Cabinetmaker	5	14	58
Carpenter	48	214	362
Communication Technician	4	5	2
Concrete Finisher	1	0	8
Cook	30	70	99
Crane and Hoisting Equipment Operator	2	5	29
Boom Truck Operator	2	1	10
Mobile Crane Operator	0	4	18
Tower Crane Operator	0	0	1
Wellhead Boom Truck Operator	0	0	0
Electric Motor Systems Technician	4	1	0
Electrician	62	357	794
Elevator Constructor	0	0	0
Floorcovering Installer	4	1	4
Gasfitter	3	4	11
Gasfitter A	1	3	10
Gasfitter B	2	1	1
Glazier	2	10	10
Hairstylist	44	118	685
Barber (Note 2)	2	0	0
Hairstylist	42	118	685
Heavy Equipment Technician	143	589	845
Heavy Equipment Technician	111	518	791
Heavy Duty Equipment Mechanic (Off Road)	15	19	11
Transport Trailer Mechanic	1	3	7
Truck and Transport Mechanic	16	49	36
Industrial Mechanic (Millwright)	20	105	183
Instrumentation and Control Technician	7	51	147
Insulator (Heat and Frost)	0	1	2

(continued)

TABLE 10 (continued)

Number of Participants in the Registered Apprenticeship Program (RAP) by Apprenticeship Program¹, 2020

APPRENTICESHIP PROGRAM	High School	Full Time	Certified <i>(Note 1)</i>
Ironworker	6	25	6
Ironworker (Generalist) <i>(Note 3)</i>	0	1	2
Ironworker (Metal Building Systems Erector)	2	4	1
Ironworker (Reinforcing)	3	15	0
Ironworker (Structural/Ornamental)	1	5	3
Landscape Horticulturist	7	16	9
Lather (Interior Systems Mechanic)	3	18	6
Locksmith	0	2	4
Machinist	3	28	72
Metal Fabricator (Fitter)	0	2	8
Motorcycle Mechanic	3	9	36
Natural Gas Compression Technician	0	1	0
Outdoor Power Equipment Technician	1	5	11
Power	1	3	2
Recreational	0	2	9
Painter and Decorator	2	0	6
Parts Technician	9	27	103
Parts Technician	9	27	102
Materials Technician	0	0	1
Plumber	24	100	220
Powerline Technician	2	16	32
Power System Electrician	0	0	0
Recreation Vehicle Service Technician	0	14	8
Refrigeration and Air Conditioning Mechanic	4	29	26
Rig Technician <i>(Note 4)</i>	0	0	0
Roofer	3	3	5
Sheet Metal Worker	9	45	45
Sprinkler Systems Installer	1	6	11
Steamfitter-Pipefitter	7	36	70
Tilesetter <i>(Note 5)</i>	0	0	3
Transport Refrigeration Technician	0	0	4
Water Well Driller	2	1	5
Welder	63	292	1,202
Welder	62	290	1,202
Wire Processor	1	2	0
Total	653	2,651	6,004

Source: Alberta Advanced Education

¹ Total number registered as of December 31, 2020

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 April 30, 2020, barber was designated as a branch of the hairstylist trade.

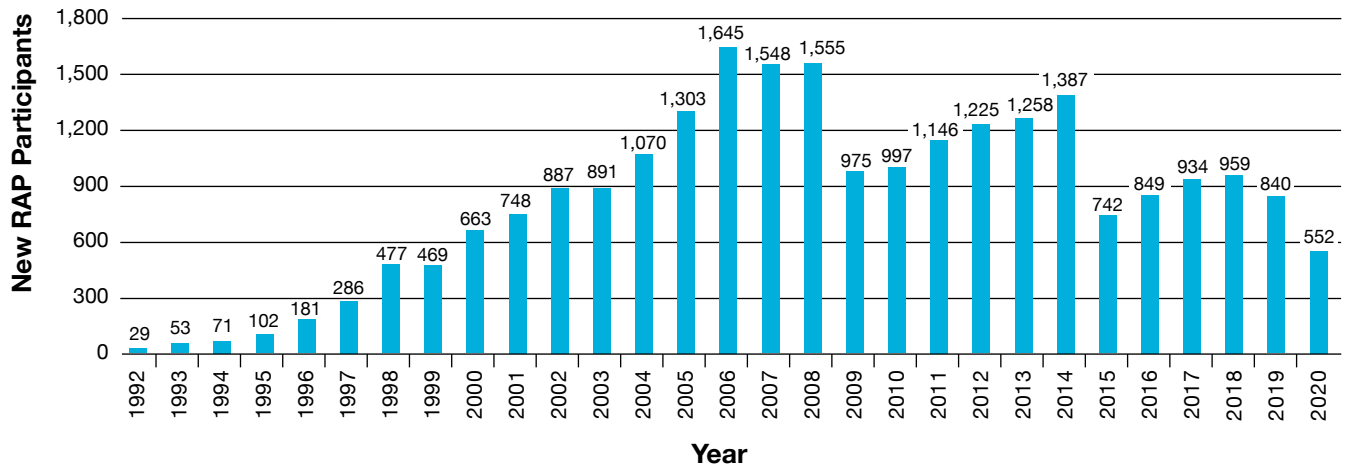
Note 3: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade was rescinded. Apprentices registered in the apprenticeship program before that day can continue in the program until August 31, 2023.

Note 4: A request to de-designate the rig technician trade was received from the Canadian Association of Oilwell Drilling Contractors (CAODC) in January 2019. As part of the process to de-designate, active rig technician apprentices were notified in advance that their apprenticeship program registration would be cancelled on November 8, 2019. Effective May 1, 2020, the designation of the rig technician trade was rescinded.

Note 5: Effective April 30, 2020, the designation of the tilesetter trade was rescinded.

CHART 6

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

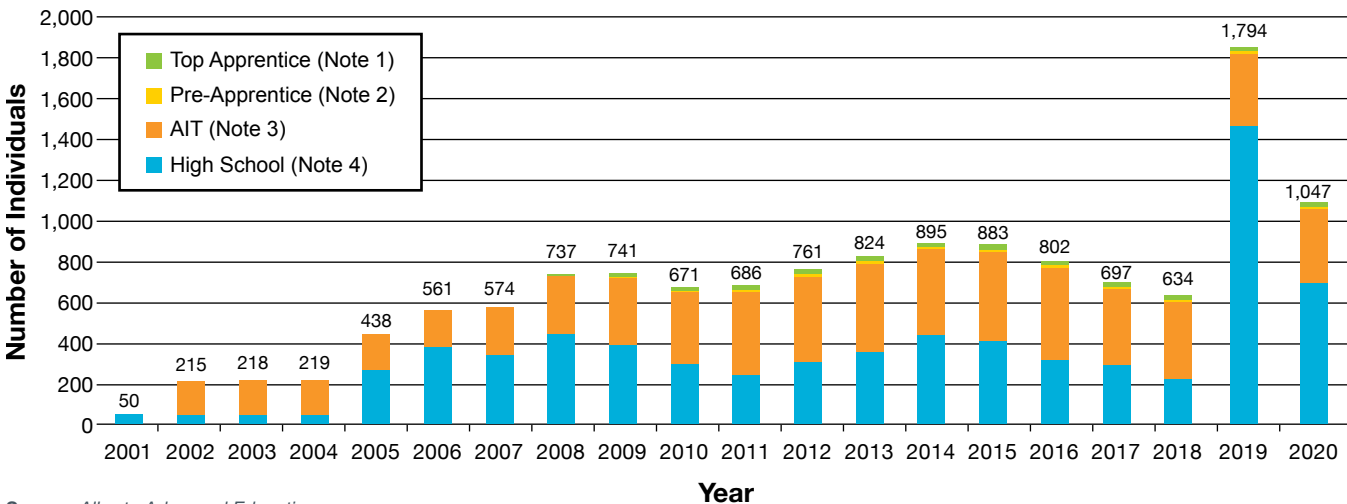


Source: Alberta Advanced Education

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 a very high academic standing in their classroom instruction.
- 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 a pre-apprentice program and have since become registered apprentices. 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:** Under the new *High School Apprenticeship Scholarship program*, 1,500 scholarships are available each year. There are two types of scholarships: 1) *High School Apprenticeship Scholarship (HSAS)* valued at \$1,000 for students who successfully completed either the Registered Apprenticeship Program (RAP) or a Career and Technology Studies (CTS) Apprenticeship Pathways, and 2) *High School Apprenticeship Scholarship – Bright Future (HSAS-BF)* valued at \$2,000 for successfully completing both RAP and a CTS Apprenticeship Pathway. In 2020, 650 HSAS and 17 HSAS-BF were awarded totalling 667 scholarships.

In 2019, the *High School Apprenticeship Scholarship program* replaced the scholarship previously known as the *Registered Apprentice Program/Career and Technology Studies Apprenticeship Pathways (RAP/CTS) scholarship* valued at \$1,000 each. For the years 2001 to 2004, there were 50 RAP/CTS Scholarships available. From 2005 to 2018, 500 RAP/CTS Scholarships were available each year.

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

TABLE 11

Number of Apprentices Registered by Apprenticeship Program - Total, Indigenous and Women, 2020¹

APPRENTICESHIP PROGRAM	Total Apprentices Registered	Indigenous Apprentices Registered <i>(Note 1)</i>	Women Apprentices Registered
Agricultural Equipment Technician	170	4	5
Appliance Service Technician	111	3	3
Appliance Service Technician	93	3	3
Commercial Appliance Service Technician	18	0	0
Auto Body Technician	632	24	65
Auto Body Technician	490	17	43
Auto Body Prepper	23	0	6
Auto Body Refinisher	75	4	14
Auto Body Repairer	44	3	2
Automotive Service Technician	3,353	155	120
Baker	139	6	104
Boilermaker	537	37	40
Bricklayer	95	2	5
Cabinetmaker	250	9	43
Carpenter	2,562	243	171
Communication Technician	73	0	3
Concrete Finisher	20	0	0
Cook	666	55	235
Crane and Hoisting Equipment Operator	1,322	61	25
Boom Truck Operator	331	20	10
Mobile Crane Operator	502	25	14
Tower Crane Operator	60	3	0
Wellhead Boom Truck Operator	429	13	1
Electric Motor Systems Technician	41	1	1
Electrician	7,965	377	453
Elevator Constructor	144	6	2
Floorcovering Installer	17	0	0
Gasfitter	530	18	12
Gasfitter A	341	12	12
Gasfitter B	189	6	0
Glazier	243	10	10
Hairstylist	2,496	158	1,993
Barber <i>(Note 2)</i>	90	1	21
Hairstylist	2,406	157	1,972
Heavy Equipment Technician	4,963	288	162
Heavy Equipment Technician	3,578	216	134
Heavy Duty Equipment Mechanic (Off Road)	469	30	14
Transport Trailer Mechanic	142	7	0
Truck and Transport Mechanic	774	35	14
Industrial Mechanic (Millwright)	1,603	105	66
Instrumentation and Control Technician	1,211	55	58
Insulator (Heat and Frost)	412	23	73

(continued)

TABLE 11 (continued)

Number of Apprentices Registered by Apprenticeship Program - Total, Indigenous and Women, 2020¹

APPRENTICESHIP PROGRAM	Total Apprentices Registered	Indigenous Apprentices Registered <small>(Note 1)</small>	Women Apprentices Registered
Ironworker	1,067	249	50
Ironworker (Generalist) <small>(Note 3)</small>	25	4	3
Ironworker (Metal Building Systems Erector)	105	10	2
Ironworker (Reinforcing)	557	188	34
Ironworker (Structural/Ornamental)	380	47	11
Landscape Horticulturist	127	5	53
Lather (Interior Systems Mechanic)	56	4	3
Locksmith	130	1	4
Machinist	480	14	21
Metal Fabricator (Fitter)	57	3	4
Motorcycle Mechanic	131	2	3
Natural Gas Compression Technician	5	1	0
Outdoor Power Equipment Technician	50	3	3
Power	26	2	2
Recreational	24	1	1
Painter and Decorator	44	1	13
Parts Technician	814	36	326
Parts Technician	757	32	298
Materials Technician	57	4	28
Plumber	2,833	169	110
Powerline Technician	343	43	8
Power System Electrician	125	3	4
Recreation Vehicle Service Technician	118	2	5
Refrigeration and Air Conditioning Mechanic	951	39	22
Rig Technician <small>(Note 4)</small>	0	0	0
Rofer	178	12	7
Sheet Metal Worker	1,214	63	50
Sprinkler Systems Installer	199	7	5
Steamfitter-Pipefitter	2,708	209	185
Tilesetter <small>(Note 5)</small>	0	0	0
Transport Refrigeration Technician	22	0	0
Water Well Driller	15	1	0
Welder	3,706	284	305
Welder	3,660	281	303
Wire Processor	46	3	2
Total	44,928	2,791	4,830

Source: Alberta Advanced Education

(Note 1)

¹ Total number of apprentices registered as of December 31. Apprentices may be registered in more than one apprenticeship program or branch of a program 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 April 30, 2020, barber was designated as a branch of the hairstylist trade.

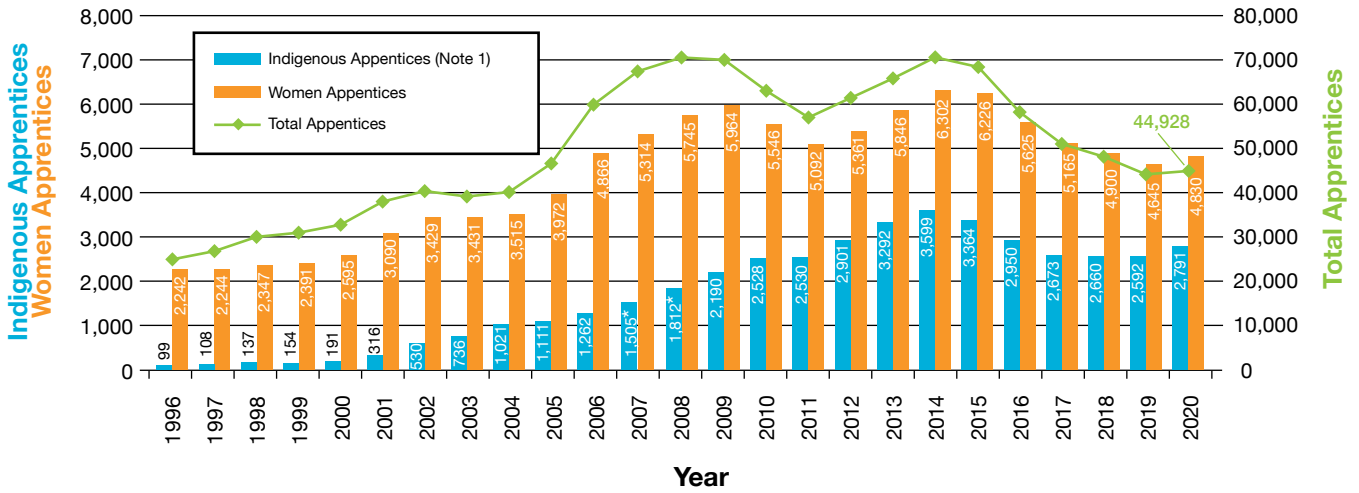
Note 3: Effective September 1, 2017, the designation of the generalist branch of the ironworker trade apprenticeship program was rescinded. Apprentices registered in the apprenticeship program before that day can continue in the program until August 31, 2023.

Note 4: A request to de-designate the rig technician trade was received from the Canadian Association of Oilwell Drilling Contractors (CAODC) in January 2019. As part of the process to de-designate, active rig technician apprentices were notified in advance that their apprenticeship program registration would be cancelled on November 8, 2019. Effective May 1, 2020, the designation of the rig technician trade was rescinded.

Note 5: Effective April 30, 2020, the designation of the tilesetter trade was rescinded.

CHART 8

Total, Women and Indigenous Apprentices Registered by Year



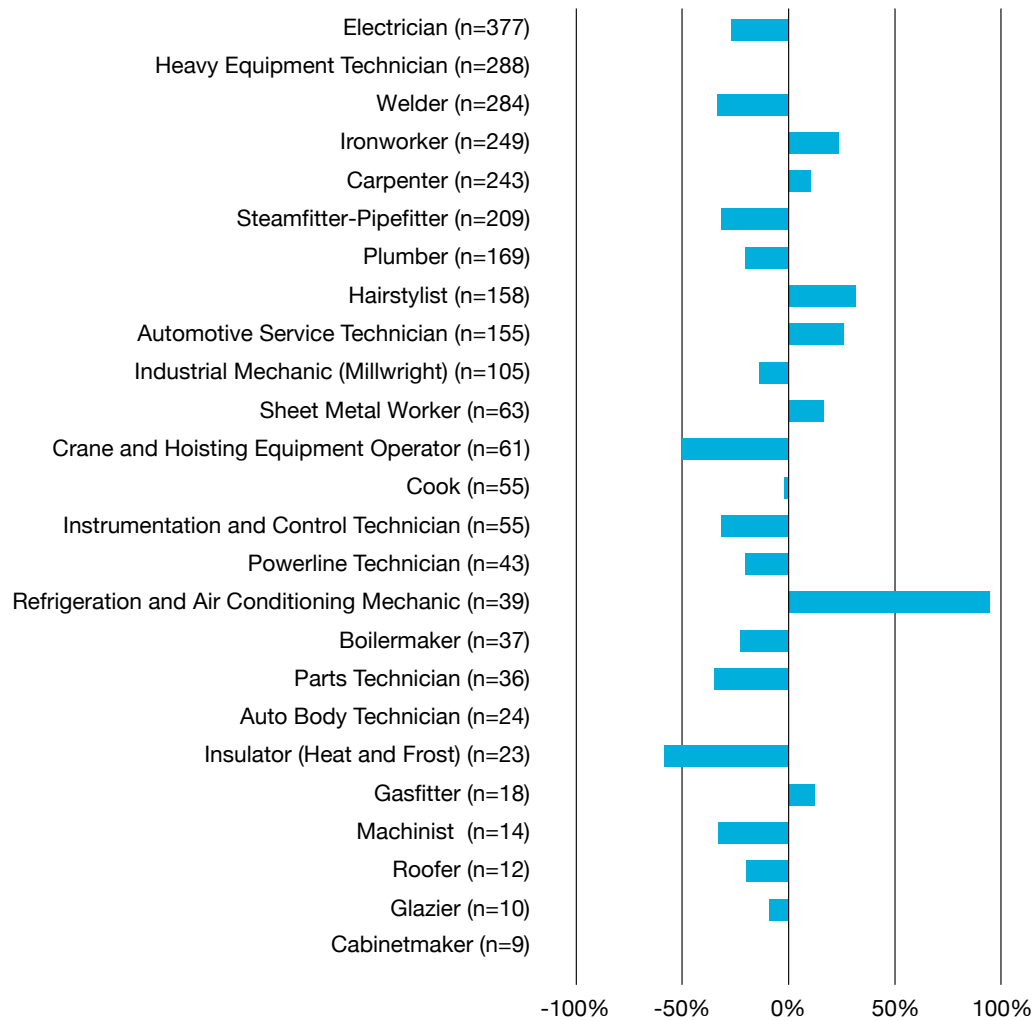
Source: Alberta Advanced Education

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 Indigenous Apprentices Registered¹ by Designated Trade Between 2015 and 2020



Source: Alberta Advanced Education

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.

Notes:

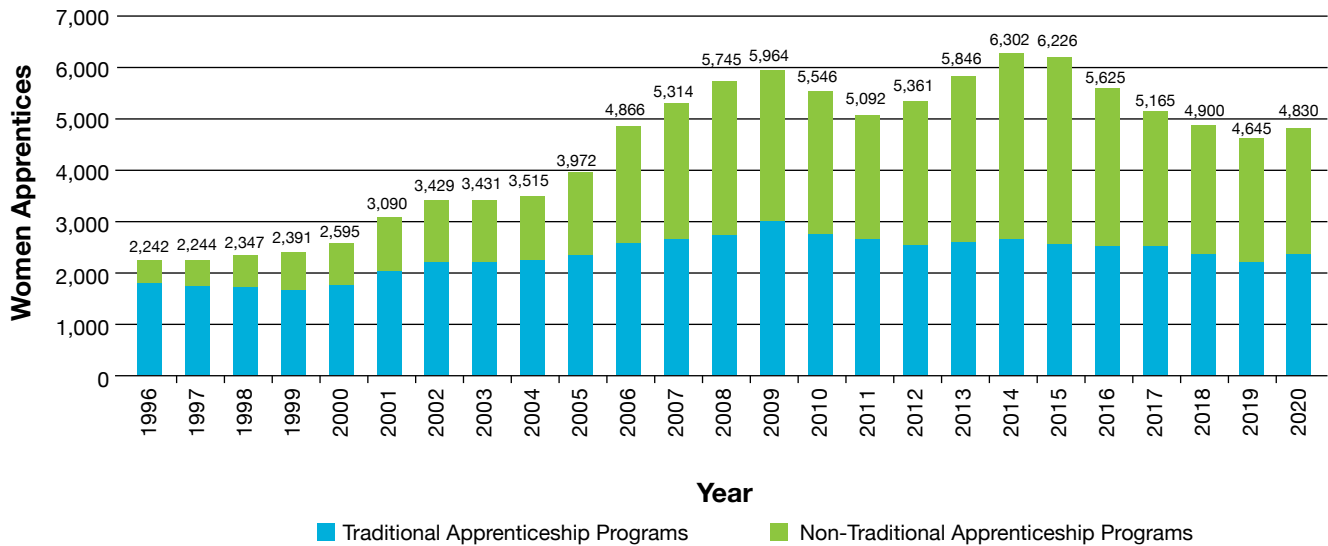
The 25 of 47 designated trades represented in the chart are those in which there were the highest number of Indigenous apprentices registered in the associated apprenticeship programs as of December 31, 2020. The list of designated trades is rank ordered with the highest to lowest number of Indigenous apprentices registered.

The 'n' provided is the number of Indigenous apprentices registered in the associated apprenticeship programs as of December 31, 2020.

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

CHART 10

Total Number of Women Apprentices Registered by Year¹



Source: Alberta Advanced Education

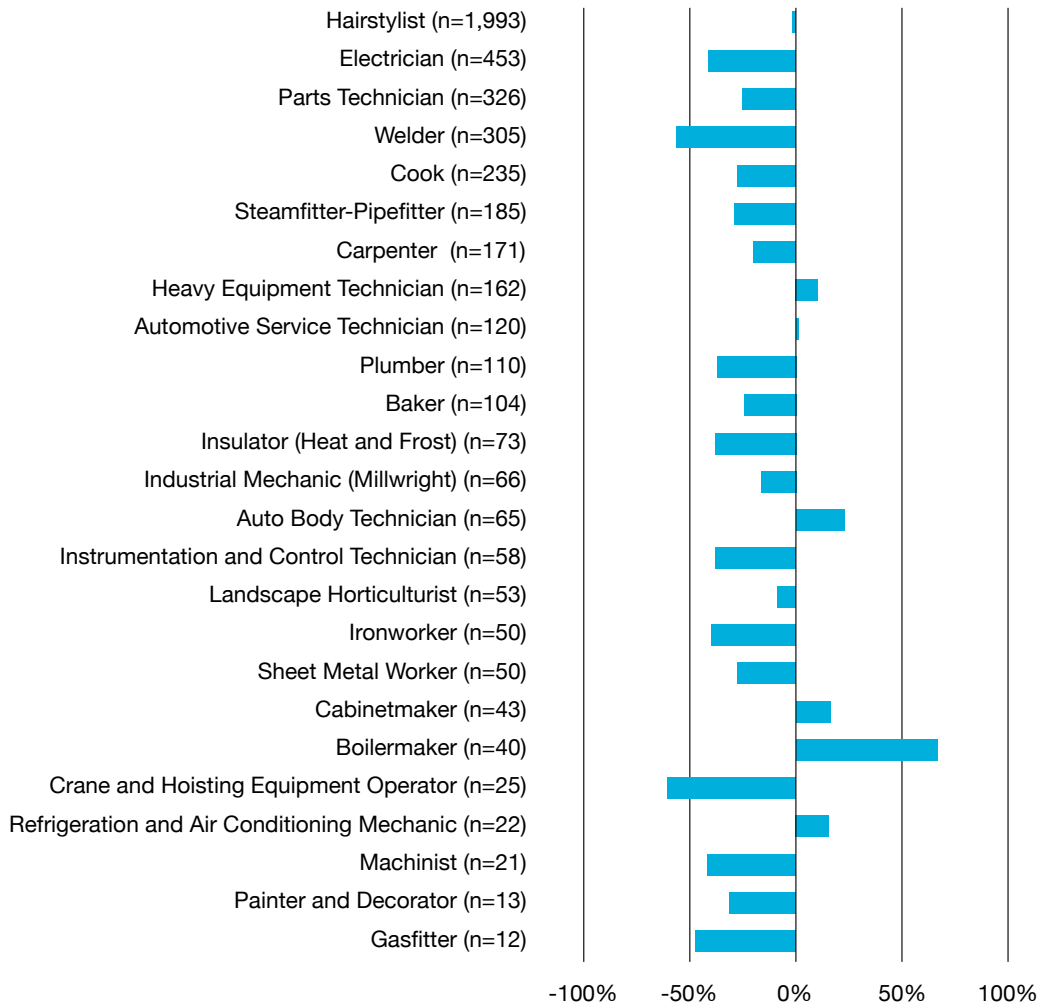
¹ This graph represents statistics covering a series of calendar years (January to December).

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

Non-Traditional Apprenticeship Programs = All apprenticeship programs other than the four 'Traditional Apprenticeship Programs'.

CHART 11

Per Cent Change of Women Apprentices Registered by Designated Trade Between 2015 and 2020



Source: Alberta Advanced Education

Notes:

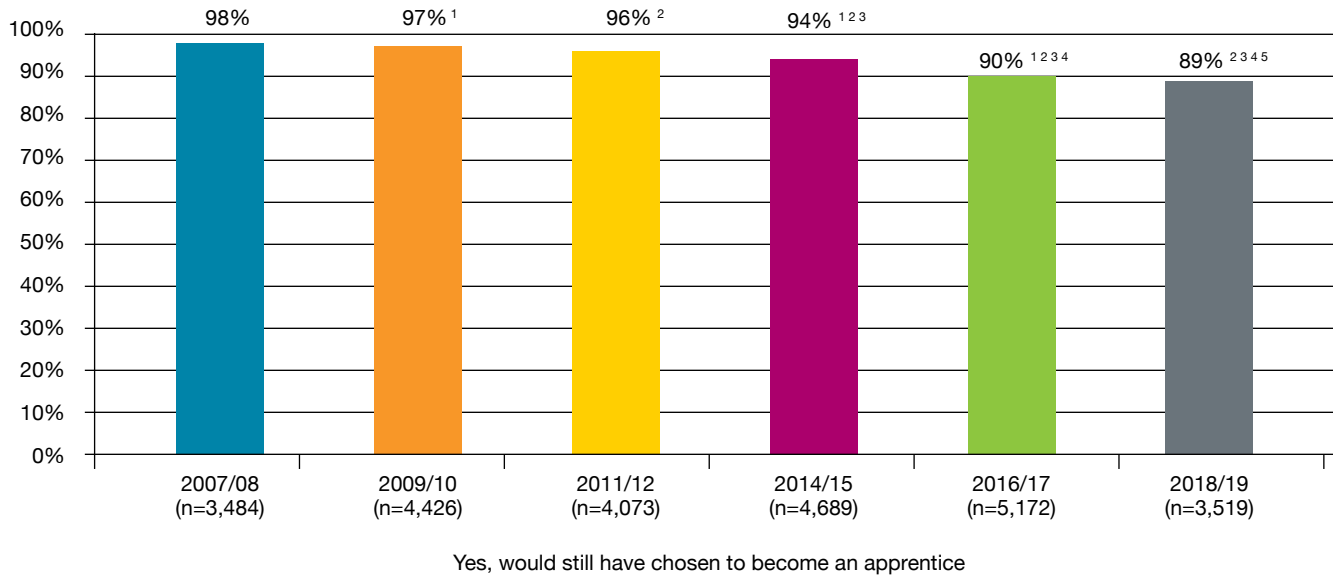
The 25 of 47 designated trades represented in the chart are those in which there were the highest number of women apprentices registered in the associated apprenticeship programs as of December 31, 2020. The list of designated trades is rank ordered with the highest to lowest number of women apprentices registered.

The 'n' provided is the number of women apprentices registered in the associated apprenticeship programs as of December 31, 2020.

Due to small registration numbers in some apprenticeship programs, 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 #F6X: 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.

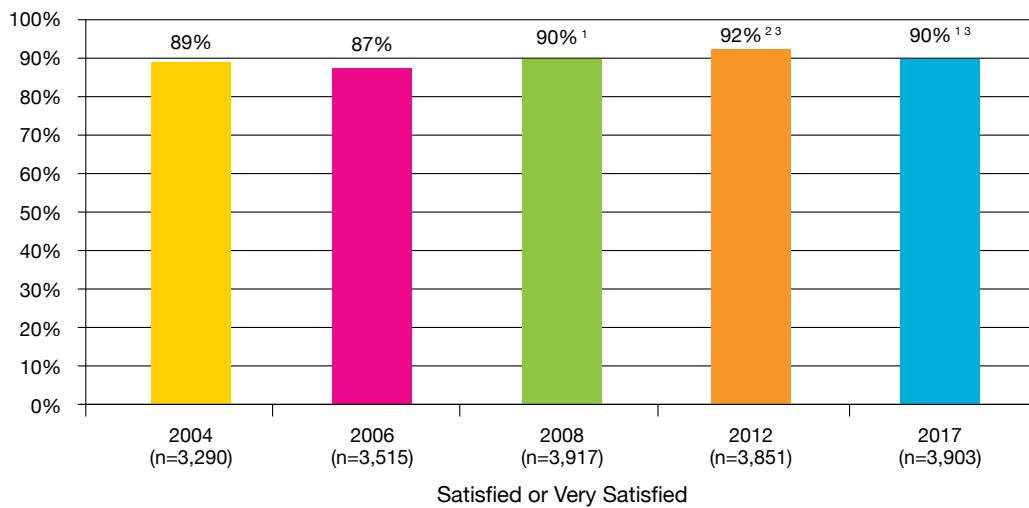
³ Indicates a significant change in response at a .05 level of significance compared to three surveys previous.

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

⁵ Indicates a significant change in response at a .05 level of significance compared to five surveys previous.

CHART 13

Employer 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.

