

Alberta  
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# Apprenticeship and Industry Training

## Statistical Profiles 2016

*Alberta*  
Government



Apprenticeship  
and Industry  
Training



# Statistical Profiles

# Apprenticeship at a Glance

## ***Apprenticeship and Industry Training in Alberta***

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

## ***Financial Support for Apprentices***

- Apprentices can access a variety of financial supports including loans, grants, scholarships and awards.
- Apprentices can apply for Alberta student loans and grants through Alberta Student Aid. Loans are also available through the Canada Apprentice Loan for apprentices registered in Red Seal trades.
- Most apprentices are eligible for employment insurance while attending formal instruction.
- Advanced Education also provides the First Period Apprentice Award to encourage first period apprentices to pursue technical training, and the Apprentice Training Award to reduce financial barriers for unemployed apprentices.
- A number of scholarships are also available to reward excellence. In 2016, more than 800 scholarships were provided to Alberta apprentices, including high school students participating in RAP, through the Alberta Apprenticeship and Industry Training Board Family of Scholarships.

## ***Alberta's Network of Industry Committees***

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

# Apprenticeship Statistics at a Glance - 2016



## **As of December 31, 2016...**

- there were more than 58,000 registered apprentices.
- approximately 2,900 apprentices registered were Indigenous and more than 5,600 were women.
- approximately 870 high school students were registered in the Registered Apprenticeship Program (RAP), and were employed at more than 700 employer sites.
- more than 2,800 apprentices who started RAP in high school were continuing in a regular apprenticeship program.

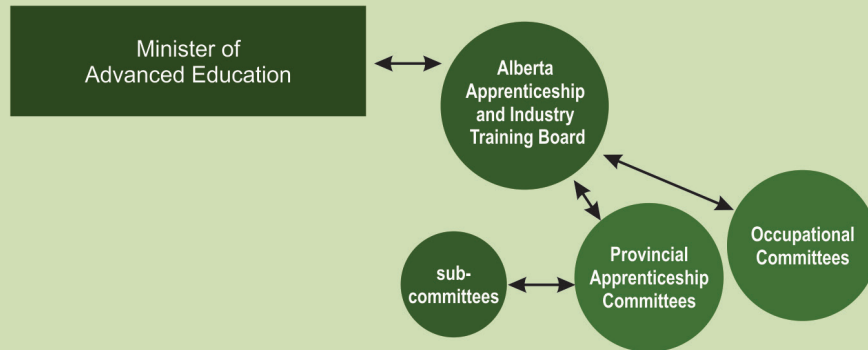
## **In 2016...**

- more than 13,000 new apprentices registered.
- the most common age for Alberta apprentices to register in their first trade is 19.
- apprentices were being trained at approximately 14,800 employer sites around Alberta.
- more than 10,500 individuals were certified in Alberta's designated trades and occupations. (This includes completed apprentices and individuals issued occupation and qualification certificates).
- Alberta Advanced Education staff completed more than 10,500 shop registrations through site visits in 2016. These site visits provide an opportunity to promote apprenticeship and industry training programs, and work with employers and apprentices to ensure the successful completion of apprenticeship training.

## **Notes...**

- More than 4,600 individuals who began their apprenticeship through RAP have gone on to complete their program and become certified journeymen.
- (See Table 10 and Chart 6.)
- Although Alberta has only 13 per cent of Canada's labour force, it trains approximately 21 per cent of the country's apprentices.
- Alberta welcomes tradespeople from other jurisdictions and recognizes all Canadian trade certificates.
- Alberta also promotes the acquisition of the Interprovincial Standards Red Seal. Alberta has produced more tradespeople with an Interprovincial Standards Red Seal than any other jurisdiction in Canada.
- The majority of 2014/2015 graduates in Alberta who participated in the most recent apprenticeship graduate survey expressed satisfaction with:
  - > the overall quality of on-the-job training (93%);
  - > the overall quality of their technical training (94%); and
  - > their experience with the apprenticeship program – 94% would still have chosen to become an apprentice.
- According to a 2012 survey of employers, overall satisfaction with Alberta's apprenticeship and trade certification system remains high with 92 per cent of respondents expressing satisfaction with the system.
- The majority of employers who participated in the 2012 employer survey expressed satisfaction with:
  - > the skills of certified journeymen (95%);
  - > apprenticeship technical training (86%); and
  - > the effectiveness of on-the-job training (96%).

# Structure and Organization of the Alberta Apprenticeship and Industry Training System



**1 FORT McMURRAY**

|  |   |
|--|---|
| Carpenter<br>Crane and hoisting<br>equipment operator<br>Electrician | Hairstylist<br>Heavy equipment technician<br>Millwright |
|--|---|

**2 PEACE RIVER**

|        |
|--------|
| Welder |
|--------|

**3 GRANDE PRAIRIE**

|  |
|--|
| Automotive service technician<br>Carpenter<br>Electrician<br>Hairstylist<br>Heavy equipment technician<br>Sheet metal worker<br>Welder |
|--|

**4 SLAVE LAKE**

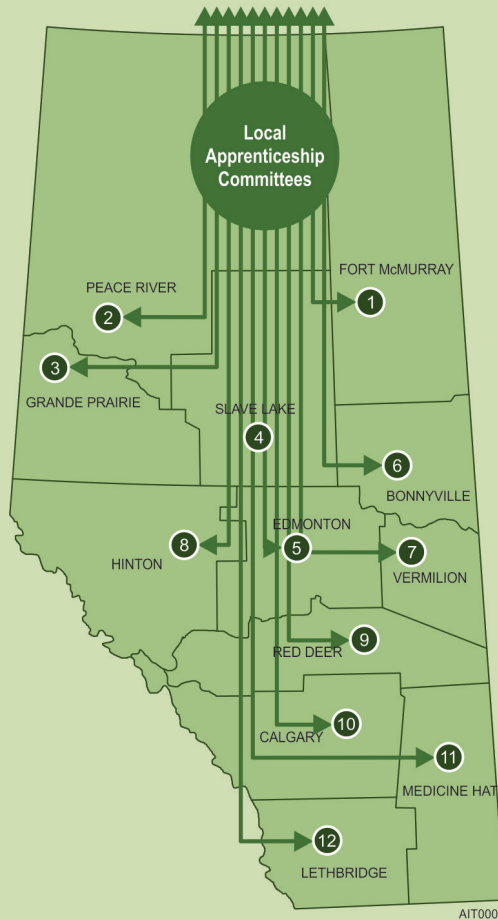
|             |
|-------------|
| Electrician |
|-------------|

**5 EDMONTON**

|  |  |
|--|--|
| Appliance service technician<br>Autobody technician<br>Automotive service technician<br>Baker<br>Bricklayer<br>Cabinetmaker<br>Carpenter<br>Communication technician<br>Cook<br>Crane and hoisting<br>equipment operator<br>Electrician<br>Gasfitter<br>Glazier<br>Hairstylist<br>Heavy equipment technician | Instrument technician<br>Locksmith<br>Machinist<br>Millwright<br>Motorcycle mechanic<br>Painter and decorator<br>Parts technician<br>Plumber<br>Powerline technician<br>Recreation vehicle service<br>technician<br>Refrigeration and air<br>conditioning mechanic<br>Sheet metal worker<br>Steamfitter - pipefitter<br>Welder |
|--|--|

**6 BONNYVILLE**

|                          |
|--------------------------|
| Carpenter<br>Electrician |
|--------------------------|



**7 VERMILION**

|   |
|---|
| Automotive service technician<br>Heavy equipment technician<br>Welder |
|---|

**8 HINTON**

|        |
|--------|
| Welder |
|--------|

**9 RED DEER**

|   |  |
|---|--|
| Automotive service technician<br>Carpenter<br>Crane and hoisting<br>equipment operator<br>Electrician | Hairstylist<br>Heavy equipment technician<br>Plumber<br>Steamfitter - pipefitter<br>Welder |
|---|--|

**10 CALGARY**

|  |  |
|--|--|
| Autobody technician<br>Automotive service technician<br>Baker<br>Bricklayer<br>Cabinetmaker<br>Carpenter<br>Communication technician<br>Cook<br>Crane and hoisting<br>equipment operator<br>Electrician<br>Gasfitter<br>Glazier<br>Hairstylist<br>Heavy equipment technician<br>Landscape horticulturist | Machinist<br>Millwright<br>Motorcycle mechanic<br>Painter and decorator<br>Parts technician<br>Plumber<br>Powerline technician<br>Recreation vehicle service<br>technician<br>Refrigeration and air<br>conditioning mechanic<br>Sheet metal worker<br>Sprinkler systems installer<br>Steamfitter - pipefitter<br>Tiler<br>Welder |
|--|--|

**11 MEDICINE HAT**

|   |   |
|---|---|
| Automotive service technician<br>Carpenter<br>Electrician | Hairstylist<br>Heavy equipment technician<br>Welder |
|---|---|

**12 LETHBRIDGE**

|  |   |
|--|---|
| Automotive service technician<br>Carpenter<br>Cook<br>Electrician<br>Hairstylist | Heavy equipment technician<br>Parts technician<br>Plumber<br>Sheet metal worker<br>Welder |
|--|---|



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Table 1

## Part A: Total and New Apprentices Registered by Year

|   | 2011   | 2012   | 2013   | 2014   | 2015   | 2016   |
|---|--------|--------|--------|--------|--------|--------|
| Total Apprentices Registered (all trades) | 57,004 | 61,326 | 65,880 | 70,733 | 67,955 | 58,337 |
| New Apprentices Registered (all trades)   | 17,371 | 21,906 | 22,129 | 23,900 | 17,227 | 13,094 |

Source: Alberta Advanced Education

**Total Apprentices Registered:** Total number registered as of December 31, 2016. Apprentices may be registered in more than one trade or branch of a trade within the same year but are counted here only once.

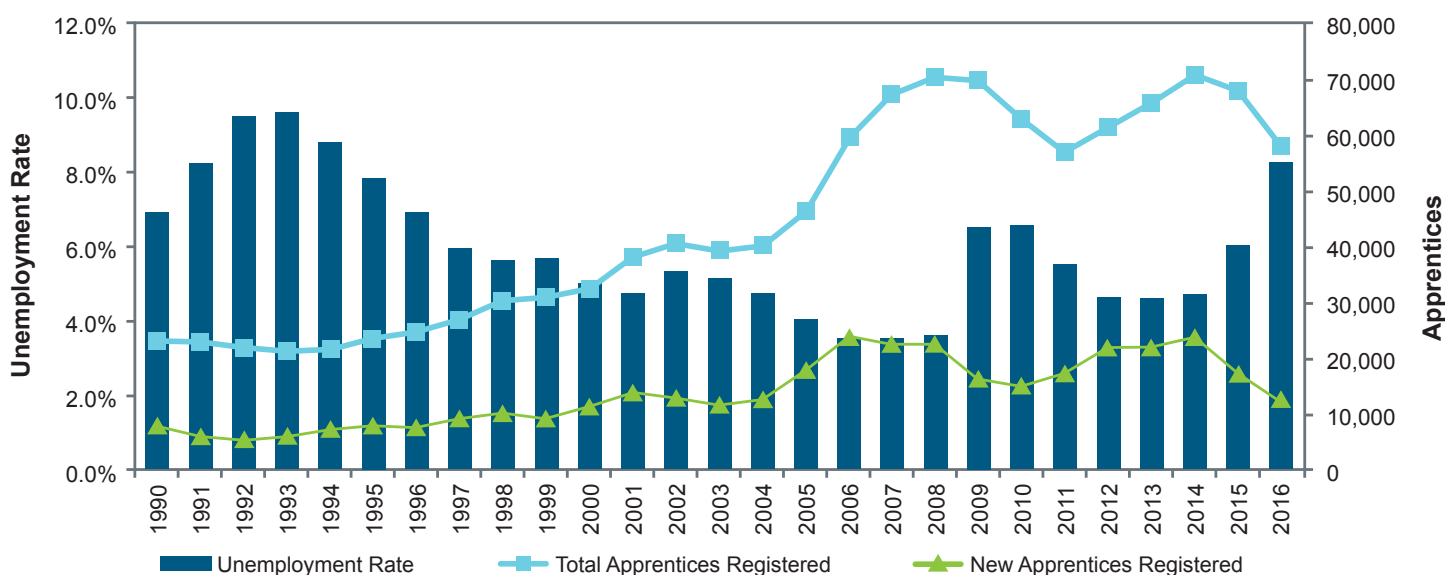
**New Apprentices Registered:** All apprentices registering during a single calendar year. The number includes those who are returning to do an additional apprenticeship after completing one or more apprenticeships in previous years, or continuing an apprenticeship in another trade for which they registered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

## Part B: Provincial Labour Force Statistics by Year

|                       | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Labour Force          | 2,215,158 | 2,253,458 | 2,333,108 | 2,386,250 | 2,449,167 | 2,464,600 |
| Employed              | 2,094,100 | 2,149,600 | 2,226,200 | 2,274,600 | 2,301,100 | 2,263,800 |
| Unemployed            | 121,000   | 103,900   | 106,900   | 111,700   | 148,100   | 200,800   |
| Unemployment Rate (%) | 5.5%      | 4.6%      | 4.6%      | 4.7%      | 6.0%      | 8.2%      |

Source: Alberta Labour

Chart 1

Alberta Unemployment Rates<sup>1</sup> and Total and New Apprentices Registered by Year

Source: Alberta Advanced Education and Alberta Labour

<sup>1</sup> Annual Averages

Table 2

Total Number of Apprentices Registered by Trade<sup>1</sup>

| TRADE AND BRANCH                             | 2011  | 2012   | 2013   | 2014   | 2015   | 2016   | 2015-16<br>% change |
|--|-------|--------|--------|--------|--------|--------|---------------------|
| Agricultural Equipment Technician ▣          | 176   | 186    | 203    | 195    | 199    | 164    | -18%                |
| Appliance Service Technician                 | 89    | 80     | 76     | 75     | 75     | 75     | 0%                  |
| Appliance Service Technician • ▣             | 18    | 65     | 64     | 64     | 68     | 70     | 3%                  |
| Commercial Appliance Service Technician •    | 71    | 15     | 12     | 11     | 7      | 5      | -29%                |
| Auto Body Technician                         | 724   | 681    | 664    | 696    | 661    | 665    | 1%                  |
| Auto Body Technician • ▣                     | 528   | 521    | 519    | 538    | 514    | 504    | -2%                 |
| Prepper •                                    | 11    | 7      | 13     | 12     | 20     | 24     | 20%                 |
| Refinisher • ▣ (Note 1)                      | 94    | 78     | 66     | 93     | 87     | 94     | 8%                  |
| Repairer • (Note 1)                          | 91    | 75     | 66     | 53     | 40     | 43     | 8%                  |
| Automotive Service Technician • ▣            | 2,984 | 2,840  | 2,952  | 3,183  | 3,205  | 3,068  | -4%                 |
| Baker ▣                                      | 175   | 170    | 180    | 203    | 174    | 177    | 2%                  |
| Boilermaker • ▣                              | 440   | 431    | 436    | 469    | 478    | 527    | 10%                 |
| Bricklayer ▣                                 | 217   | 203    | 176    | 172    | 182    | 170    | -7%                 |
| Cabinetmaker ▣                               | 351   | 311    | 277    | 279    | 258    | 257    | 0%                  |
| Carpenter ▣                                  | 3,923 | 3,651  | 3,448  | 3,525  | 3,374  | 3,104  | -8%                 |
| Communication Technician                     | 305   | 217    | 153    | 124    | 140    | 135    | -4%                 |
| Concrete Finisher ▣                          | 62    | 58     | 67     | 65     | 71     | 57     | -20%                |
| Cook ▣                                       | 985   | 937    | 900    | 973    | 976    | 977    | 0%                  |
| Crane and Hoisting Equipment Operator        | 2,398 | 2,831  | 3,263  | 3,249  | 3,017  | 2,354  | -22%                |
| Boom Truck •                                 | 809   | 911    | 1,029  | 1,071  | 1,014  | 827    | -18%                |
| Mobile Crane • ▣                             | 615   | 775    | 1,005  | 1,070  | 1,042  | 804    | -23%                |
| Tower Crane • ▣                              | 41    | 52     | 60     | 65     | 75     | 53     | -29%                |
| Wellhead Boom Truck •                        | 933   | 1,093  | 1,169  | 1,043  | 886    | 670    | -24%                |
| Electric Motor Systems Technician ▣          | 69    | 65     | 65     | 43     | 34     | 35     | 3%                  |
| Electrician • ▣                              | 9,823 | 10,343 | 11,387 | 13,151 | 13,258 | 11,714 | -12%                |
| Elevator Constructor •                       | 216   | 179    | 186    | 179    | 253    | 318    | 26%                 |
| Floorcovering Installer ▣                    | 63    | 48     | 57     | 40     | 43     | 35     | -19%                |
| Gasfitter                                    | 384   | 410    | 381    | 429    | 529    | 506    | -4%                 |
| Gasfitter A • ▣                              | 335   | 352    | 326    | 376    | 450    | 420    | -7%                 |
| Gasfitter B • ▣                              | 49    | 58     | 55     | 53     | 79     | 86     | 9%                  |
| Glazier                                      | 351   | 305    | 280    | 258    | 270    | 287    | 6%                  |
| Glazier ▣                                    | 346   | 301    | 276    | 254    | 268    | 287    | 7%                  |
| Auto Glass Technician (Note 2)               | 5     | 4      | 4      | 4      | 2      | 0      | -100%               |
| Hairstylist • ▣                              | 2,365 | 2,288  | 2,359  | 2,324  | 2,222  | 2,218  | 0%                  |
| Heavy Equipment Technician                   | 4,712 | 5,492  | 5,954  | 6,550  | 6,195  | 4,933  | -20%                |
| Heavy Equipment Technician •                 | 3,891 | 4,560  | 4,982  | 5,447  | 4,970  | 3,842  | -23%                |
| Heavy Duty Equipment Mechanic (Off Road) • ▣ | 252   | 306    | 335    | 374    | 443    | 387    | -13%                |
| Transport Trailer Mechanic •                 | 111   | 112    | 105    | 137    | 145    | 117    | -19%                |
| Truck and Transport Mechanic • ▣             | 458   | 514    | 532    | 592    | 637    | 587    | -8%                 |
| Instrument Technician ▣                      | 1,698 | 1,764  | 1,943  | 2,157  | 1,956  | 1,580  | -19%                |
| Insulator ▣                                  | 838   | 698    | 726    | 800    | 786    | 756    | -4%                 |
| Ironworker                                   | 927   | 1,416  | 1,589  | 1,513  | 1,665  | 1,647  | -1%                 |
| Ironworker • ▣                               | 234   | 360    | 368    | 358    | 371    | 358    | -4%                 |
| Metal Building Systems Erector •             | 61    | 90     | 111    | 112    | 91     | 77     | -15%                |
| Reinforcing • ▣                              | 163   | 273    | 268    | 313    | 337    | 270    | -20%                |
| Structural/Ornamental • ▣                    | 469   | 693    | 842    | 730    | 866    | 942    | 9%                  |
| Landscape Horticulturist ▣ (Note 3)          | 181   | 162    | 160    | 147    | 147    | 155    | 5%                  |
| Lather-Interior Systems Mechanic ▣           | 89    | 62     | 86     | 111    | 118    | 111    | -6%                 |
| Locksmith                                    | 76    | 83     | 91     | 118    | 133    | 143    | 8%                  |

(continued)



Table 2 (continued)

Total Number of Apprentices Registered by Trade<sup>1</sup>

| TRADE AND BRANCH                                | 2011          | 2012          | 2013          | 2014          | 2015          | 2016          | 2015-16<br>% change |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------------|
| Machinist ■                                     | 640           | 779           | 852           | 841           | 753           | 529           | -30%                |
| Metal Fabricator (Fitter) ■ (Note 4)            | 139           | 175           | 157           | 136           | 129           | 99            | -23%                |
| Millwright ■                                    | 1,672         | 1,909         | 2,107         | 2,269         | 2,176         | 1,814         | -17%                |
| Motorcycle Mechanic • ■                         | 197           | 198           | 216           | 208           | 203           | 186           | -8%                 |
| Natural Gas Compression Technician              | 2             | 15            | 25            | 32            | 28            | 24            | -14%                |
| Outdoor Power Equipment Technician              | 98            | 88            | 75            | 67            | 58            | 63            | 9%                  |
| Power   | 41            | 44            | 37            | 32            | 14            | 20            | 43%                 |
| Recreational                                    | 57            | 44            | 38            | 35            | 44            | 43            | -2%                 |
| Painter and Decorator ■                         | 113           | 108           | 101           | 97            | 95            | 120           | 26%                 |
| Parts Technician                                | 846           | 1,007         | 1,127         | 1,193         | 1,128         | 953           | -16%                |
| Parts Technician ■                              | 746           | 893           | 1,000         | 1,064         | 1,010         | 852           | -16%                |
| Materials Technician                            | 100           | 114           | 127           | 129           | 118           | 101           | -14%                |
| Plumber   | 3,502         | 3,286         | 3,397         | 3,800         | 4,047         | 3,775         | -7%                 |
| Plumber • ■                                     | 21            | 22            | 16            | 17            | 19            | 13            | -32%                |
| Plumber & Gasfitter B • ■                       | 3,481         | 3,264         | 3,381         | 3,783         | 4,028         | 3,762         | -7%                 |
| Powerline Technician ■                          | 618           | 658           | 733           | 891           | 882           | 672           | -24%                |
| Power System Electrician                        | 329           | 369           | 444           | 484           | 455           | 260           | -43%                |
| Recreation Vehicle Service Technician • ■       | 116           | 102           | 111           | 131           | 157           | 151           | -4%                 |
| Refrigeration and Air Conditioning Mechanic • ■ | 731           | 753           | 760           | 821           | 822           | 844           | 3%                  |
| Rig Technician • ■                              | 2,719         | 2,832         | 2,345         | 2,168         | 1,797         | 1,147         | -36%                |
| Roofer ■  | 191           | 212           | 198           | 195           | 190           | 217           | 14%                 |
| Sawfiler (Note 5)                               | 5             | 4             | 0             | N/A           | N/A           | NA            | NA                  |
| Sawfiler  | 5             | 4             | 0             | N/A           | N/A           | NA            | NA                  |
| Circular Sawfiler                               | 0             | 0             | 0             | N/A           | N/A           | NA            | NA                  |
| Sheet Metal Worker • ■                          | 1,323         | 1,155         | 1,179         | 1,306         | 1,375         | 1,428         | 4%                  |
| Sprinkler Systems Installer ■                   | 301           | 263           | 273           | 281           | 338           | 322           | -5%                 |
| Steamfitter-Pipefitter • ■                      | 3,150         | 4,160         | 5,250         | 5,769         | 5,261         | 4,211         | -20%                |
| Tilesetter ■                                    | 30            | 34            | 22            | 20            | 20            | 11            | -45%                |
| Transport Refrigeration Technician              | 27            | 28            | 36            | 37            | 33            | 25            | -24%                |
| Water Well Driller                              | 40            | 45            | 48            | 46            | 45            | 34            | -24%                |
| Welder  | 5,594         | 7,235         | 8,365         | 8,913         | 7,544         | 5,284         | -30%                |
| Welder • ■                                      | 5,582         | 7,183         | 8,317         | 8,840         | 7,490         | 5,248         | -30%                |
| Wire Processor •                                | 12            | 52            | 48            | 73            | 54            | 36            | -33%                |
| <b>TOTAL</b>                                    | <b>57,004</b> | <b>61,326</b> | <b>65,880</b> | <b>70,733</b> | <b>67,955</b> | <b>58,337</b> | <b>-14%</b>         |

Source: Alberta Advanced Education

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

• = Compulsory certification trade  
 ■ = Red Seal Trade

N/A = Not Applicable. Data does not exist in one or more of the specified years.

**Note 1:** In 2016, 14 of the 94 individuals registered in the refinisher branch of the auto body technician trade were also registered in the repairer branch of that trade.

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

**Note 3:** Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

**Note 4:** Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

**Note 5:** Effective July 1, 2013, the designation of the trade of sawfiler was rescinded.

Table 3

New Apprentices Registered by Trade<sup>1</sup>

| TRADE AND BRANCH                         | 2011  | 2012  | 2013  | 2014  | 2015  | 2016 | 2015-16<br>% change |
|--|-------|-------|-------|-------|-------|------|---------------------|
| Agricultural Equipment Technician        | 54    | 63    | 59    | 50    | 57    | 33   | -42%                |
| Appliance Service Technician             | 27    | 26    | 19    | 25    | 19    | 27   | 42%                 |
| Appliance Service Technician             | 20    | 23    | 16    | 22    | 18    | 26   | 44%                 |
| Commercial Appliance Service Technician  | 7     | 3     | 3     | 3     | 1     | 1    | 0%                  |
| Auto Body Technician                     | 213   | 206   | 196   | 250   | 176   | 208  | 18%                 |
| Auto Body Technician                     | 181   | 174   | 157   | 199   | 133   | 144  | 8%                  |
| Prepper                                  | 6     | 4     | 10    | 11    | 14    | 16   | 14%                 |
| Refinisher (Note 1)                      | 18    | 19    | 19    | 30    | 22    | 32   | 45%                 |
| Repairer (Note 1)                        | 8     | 9     | 10    | 10    | 7     | 16   | 129%                |
| Automotive Service Technician            | 779   | 804   | 886   | 1,027 | 856   | 712  | -17%                |
| Baker                                    | 64    | 74    | 64    | 69    | 62    | 57   | -8%                 |
| Boilermaker                              | 144   | 132   | 154   | 137   | 134   | 199  | 49%                 |
| Bricklayer                               | 48    | 39    | 45    | 40    | 64    | 53   | -17%                |
| Cabinetmaker                             | 85    | 91    | 73    | 103   | 71    | 80   | 13%                 |
| Carpenter                                | 931   | 1,046 | 1,026 | 1,134 | 935   | 758  | -19%                |
| Communication Technician                 | 44    | 63    | 30    | 32    | 48    | 34   | -29%                |
| Concrete Finisher                        | 28    | 25    | 39    | 23    | 38    | 18   | -53%                |
| Cook                                     | 362   | 346   | 317   | 391   | 348   | 321  | -8%                 |
| Crane and Hoisting Equipment Operator    | 1,007 | 1,284 | 1,330 | 1,223 | 763   | 489  | -36%                |
| Boom Truck                               | 341   | 409   | 419   | 433   | 266   | 160  | -40%                |
| Mobile Crane                             | 192   | 364   | 431   | 344   | 261   | 188  | -28%                |
| Tower Crane                              | 15    | 26    | 30    | 28    | 38    | 12   | -68%                |
| Wellhead Boom Truck                      | 459   | 485   | 450   | 418   | 198   | 129  | -35%                |
| Electric Motor Systems Technician        | 22    | 18    | 23    | 13    | 7     | 15   | 114%                |
| Electrician                              | 2,398 | 2,921 | 3,338 | 4,153 | 2,956 | 1923 | -35%                |
| Elevator Constructor                     | 26    | 15    | 59    | 40    | 89    | 96   | 8%                  |
| Floorcovering Installer                  | 31    | 13    | 30    | 16    | 19    | 10   | -47%                |
| Gasfitter                                | 164   | 177   | 151   | 200   | 230   | 182  | -21%                |
| Gasfitter A                              | 143   | 141   | 128   | 165   | 180   | 141  | -22%                |
| Gasfitter B                              | 21    | 36    | 23    | 35    | 50    | 41   | -18%                |
| Glazier                                  | 96    | 68    | 72    | 81    | 84    | 87   | 4%                  |
| Glazier                                  | 94    | 68    | 68    | 81    | 84    | 87   | 4%                  |
| Auto Glass Technician (Note 2)           | 2     | 0     | 4     | 0     | N/A   | NA   | N/A                 |
| Hairstylist                              | 912   | 866   | 809   | 856   | 719   | 801  | 11%                 |
| Heavy Equipment Technician               | 1,630 | 2,064 | 1,835 | 2,081 | 1,305 | 849  | -35%                |
| Heavy Equipment Technician               | 1,287 | 1,685 | 1,485 | 1,626 | 854   | 548  | -36%                |
| Heavy Duty Equipment Mechanic (Off Road) | 105   | 148   | 116   | 156   | 178   | 105  | -41%                |
| Transport Trailer Mechanic               | 66    | 51    | 46    | 75    | 57    | 45   | -21%                |
| Truck and Transport Mechanic             | 172   | 180   | 188   | 224   | 216   | 151  | -30%                |
| Instrument Technician                    | 506   | 621   | 684   | 738   | 418   | 354  | -15%                |
| Insulator                                | 220   | 217   | 266   | 373   | 252   | 276  | 10%                 |
| Ironworker                               | 339   | 810   | 779   | 642   | 746   | 594  | -20%                |
| Ironworker                               | 96    | 205   | 178   | 159   | 156   | 146  | -6%                 |
| Metal Building Systems Erector           | 27    | 53    | 74    | 58    | 40    | 21   | -48%                |
| Reinforcing                              | 77    | 190   | 149   | 201   | 188   | 123  | -35%                |
| Structural/Ornamental                    | 139   | 362   | 378   | 224   | 362   | 304  | -16%                |
| Landscape Horticulturist (Note 3)        | 55    | 43    | 50    | 38    | 44    | 49   | 11%                 |
| Lather-Interior Systems Mechanic         | 26    | 26    | 47    | 45    | 44    | 37   | -16%                |
| Locksmith                                | 33    | 24    | 31    | 53    | 40    | 120  | 200%                |

(continued)

Table 3 (continued)

New Apprentices Registered by Trade<sup>1</sup>

| TRADE AND BRANCH                            | 2011          | 2012          | 2013          | 2014          | 2015          | 2016          | 2015-16<br>% change |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------------|
| Machinist                                   | 210           | 305           | 262           | 227           | 135           | 61            | -55%                |
| Metal Fabricator (Fitter) (Note 4)          | 76            | 92            | 50            | 44            | 37            | 22            | -41%                |
| Millwright                                  | 521           | 668           | 670           | 636           | 450           | 337           | -25%                |
| Motorcycle Mechanic                         | 59            | 77            | 80            | 69            | 66            | 49            | -26%                |
| Natural Gas Compression Technician          | 2             | 16            | 15            | 15            | 5             | 4             | -20%                |
| Outdoor Power Equipment Technician          | 53            | 35            | 25            | 27            | 23            | 24            | 4%                  |
| Power                                       | 25            | 20            | 13            | 11            | 4             | 8             | 100%                |
| Recreational                                | 28            | 15            | 12            | 16            | 19            | 16            | -16%                |
| Painter and Decorator                       | 44            | 39            | 35            | 47            | 31            | 63            | 103%                |
| Parts Technician                            | 334           | 464           | 428           | 429           | 342           | 246           | -28%                |
| Parts Technician                            | 275           | 413           | 369           | 374           | 299           | 200           | -33%                |
| Materials Technician                        | 59            | 51            | 59            | 55            | 43            | 46            | 7%                  |
| Plumber                                     | 700           | 822           | 985           | 1,267         | 1,105         | 785           | -29%                |
| Plumber                                     | 8             | 5             | 3             | 8             | 4             | 2             | -50%                |
| Plumber & Gasfitter B                       | 692           | 817           | 982           | 1,259         | 1,101         | 783           | -29%                |
| Powerline Technician                        | 184           | 235           | 278           | 338           | 205           | 86            | -58%                |
| Power System Electrician                    | 107           | 150           | 216           | 198           | 163           | 56            | -66%                |
| Recreation Vehicle Service Technician       | 29            | 38            | 41            | 57            | 52            | 47            | -10%                |
| Refrigeration and Air Conditioning Mechanic | 176           | 217           | 214           | 246           | 213           | 230           | 8%                  |
| Rig Technician                              | 1,062         | 944           | 589           | 635           | 323           | 77            | -76%                |
| Roofer                                      | 68            | 85            | 57            | 76            | 69            | 100           | 45%                 |
| Sawfiler (Note 5)                           | 1             | 3             | 0             | N/A           | N/A           | NA            | N/A                 |
| Sawfiler                                    | 1             | 3             | 0             | N/A           | N/A           | NA            | N/A                 |
| Circular Sawfiler                           | 0             | 0             | 0             | N/A           | N/A           | NA            | N/A                 |
| Sheet Metal Worker                          | 272           | 246           | 312           | 443           | 386           | 384           | -1%                 |
| Sprinkler Systems Installer                 | 54            | 67            | 104           | 115           | 121           | 75            | -38%                |
| Steamfitter-Pipefitter                      | 1,098         | 1,965         | 2,253         | 2,192         | 1,318         | 1,048         | -20%                |
| Tilesetter                                  | 9             | 13            | 4             | 7             | 6             | 2             | -67%                |
| Transport Refrigeration Technician          | 6             | 15            | 14            | 15            | 7             | 9             | 29%                 |
| Water Well Driller                          | 17            | 17            | 14            | 16            | 8             | 9             | 13%                 |
| Welder                                      | 2,045         | 3,311         | 3,071         | 2,968         | 1,638         | 998           | -39%                |
| Welder                                      | 2,039         | 3,262         | 3,040         | 2,913         | 1,625         | 983           | -40%                |
| Wire Processor                              | 6             | 49            | 31            | 55            | 13            | 15            | 15%                 |
| <b>TOTAL</b>                                | <b>17,371</b> | <b>21,906</b> | <b>22,129</b> | <b>23,900</b> | <b>17,227</b> | <b>13,094</b> | <b>-24%</b>         |

Source: Alberta Advanced Education

<sup>1</sup> New apprentices include all apprentices registering during a single calendar year. The number includes those who are returning to do an additional apprenticeship after completing one or more apprenticeship programs in previous years, or continuing an apprenticeship in another trade for which they registered in a previous year. Apprentices who registered in more than one trade or branch of a trade within 2016, are counted here only once. The number does not include reinstated apprentices (unless reinstated in the same year).

N/A = Not Applicable. Data does not exist in one or more of the specified years.

**Note 1:** In 2016, two of the 32 individuals registered in the refinisher branch of the auto body technician trade were also registered in the prepper branch of that trade.

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

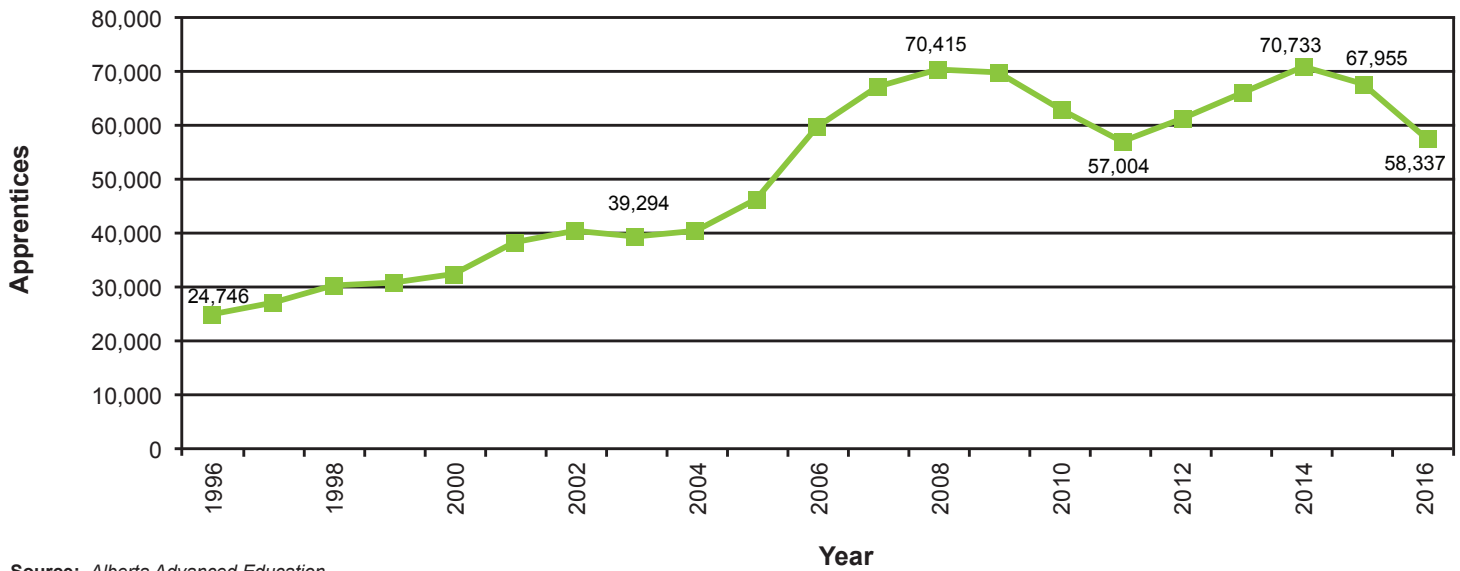
**Note 3:** Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

**Note 4:** Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

**Note 5:** Effective July 1, 2013, the designation of the trade of sawfiler was rescinded.

## Chart 2

### Total Number of Apprentices Registered by Year<sup>1</sup>

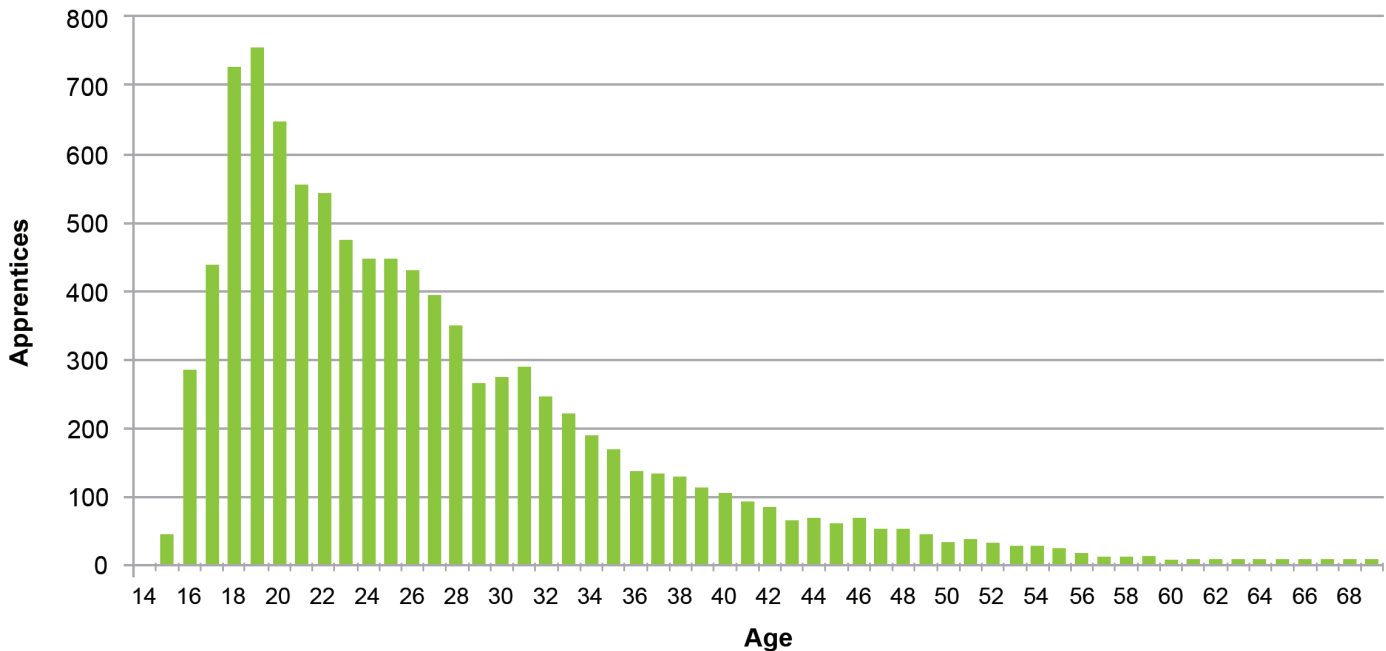


Source: Alberta Advanced Education

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

## Chart 3

### Age of Alberta Apprentices on Date of Registration in First Trade, 2016<sup>1</sup>



Total number of Alberta apprentices registering in their first trade in 2016 = 9,549<sup>2</sup>

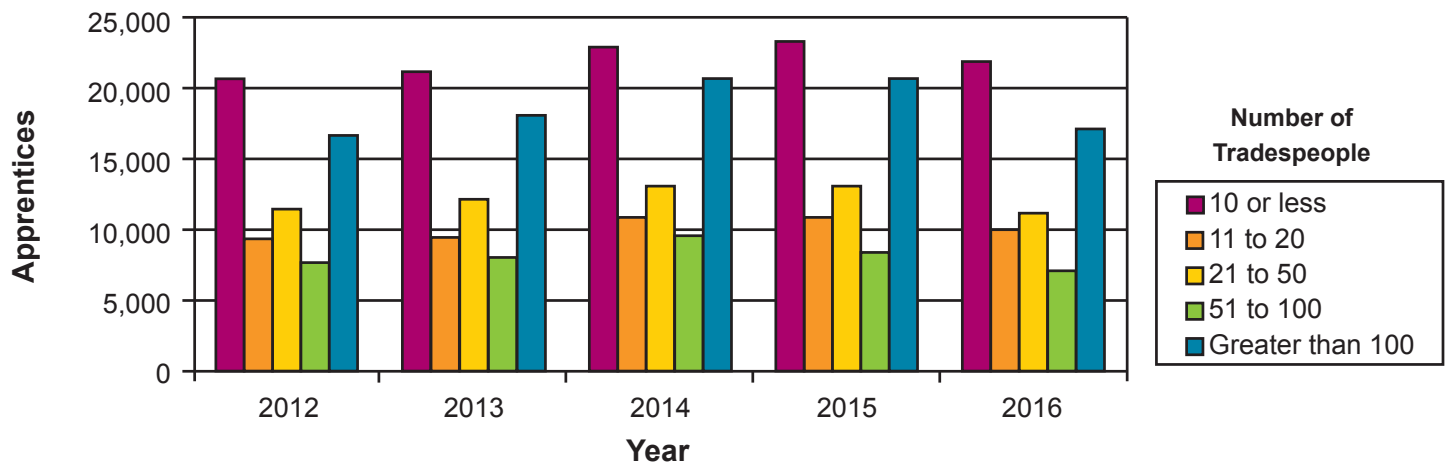
Source: Alberta Advanced Education

<sup>1</sup> Age at date of registration.

<sup>2</sup> The 9,549 total in the chart above includes only individuals registering in their first trade in Alberta in 2016. This number differs from the total number of new apprentices registered (13,094) as presented in Table 3. In Table 3, the number of new apprentices registered includes those who are returning to do an additional apprenticeship after completing one or more apprenticeship programs in previous years.

Chart 4

## Total Apprentices Being Trained by Employer Site Size<sup>1</sup>



Source: Alberta Advanced Education

<sup>1</sup> The size of an employer site is determined by the number of tradespeople.

Table 4

## Total Number of Individuals Certified by Trade/Occupation, 2016<sup>1</sup>

| TRADE AND BRANCH/OCCUPATION             | Journeyman Certificates Issued to Completed Apprentices and Individuals Issued Occupation Certificates | Interprovincial Red Seals Issued to Completed Apprentices and Trainees (Note 1) | Qualification Certificates (Note 2) | Other Red Seals Issued (Note 3) |
|---|--|---|-------------------------------------|---------------------------------|
| Agricultural Equipment Technician       | 32   | 24  | 1                                   | 0                               |
| Appliance Service Technician            | 8  | 6   | 5                                   | 4                               |
| Appliance Service Technician            | 7  | 6   | 4                                   | 4                               |
| Commercial Appliance Service Technician | 1  | N/A   | 1                                   | N/A                             |
| Auto Body Technician                    | 76   | 60  | 24                                  | 15                              |
| Auto Body Technician                    | 31   | 11  | 11                                  | 9                               |
| Prepper                                 | 2  | N/A   | 1                                   | N/A                             |
| Refinisher                              | 30   | 49  | 6                                   | 6                               |
| Repairer                                | 13   | N/A   | 6                                   | N/A                             |
| Automotive Service Technician           | 382  | 352   | 61                                  | 54                              |
| Baker                                   | 26   | 21  | 10                                  | 9                               |
| Boilermaker                             | 69   | 59  | 11                                  | 9                               |
| Bricklayer                              | 26   | 21  | 1                                   | 1                               |
| Cabinetmaker                            | 28   | 26  | 2                                   | 2                               |
| Carpenter                               | 348  | 267   | 20                                  | 20                              |
| Communication Technician                | 8  | N/A   | 0                                   | N/A                             |
| Concrete Finisher                       | 16   | 15  | 8                                   | 7                               |
| Cook                                    | 126  | 116   | 91                                  | 86                              |
| Crane and Hoisting Equipment Operator   | 496  | 264   | 21                                  | 13                              |
| Boom Truck                              | 142  | N/A   | 8                                   | N/A                             |
| Mobile Crane                            | 267  | 254   | 12                                  | 11                              |
| Tower Crane                             | 13   | 10  | 1                                   | 2                               |
| Wellhead Boom Truck                     | 74   | N/A   | 0                                   | N/A                             |
| Electric Motor Systems Technician       | 7  | 6   | 0                                   | 0                               |
| Electrician                             | 1,542  | 1,302   | 99                                  | 90                              |

(continued)

Table 4 (continued)

Total Number of Individuals Certified by Trade/Occupation, 2016<sup>1</sup>

| TRADE AND BRANCH/OCCUPATION                 | Journeyman Certificates Issued to Completed Apprentices and Individuals Issued Occupation Certificates | Interprovincial Red Seals Issued to Completed Apprentices and Trainees (Note 1) | Qualification Certificates (Note 2) | Other Red Seals Issued (Note 3) |
|---|--|---|-------------------------------------|---------------------------------|
| Elevator Constructor                        | 21   | N/A   | 3                                   | N/A                             |
| Floorcovering Installer                     | 5  | 5   | 1                                   | 1                               |
| Gasfitter                                   | 109  | 0   | 6                                   | 1                               |
| Gasfitter A                                 | 95   | 0   | 2                                   | 0                               |
| Gasfitter B                                 | 14   | 0   | 4                                   | 1                               |
| Glazier                                     | 31   | 25  | 1                                   | 1                               |
| Glazier                                     | 31   | 25  | 1                                   | 1                               |
| Auto Glass Technician (Note 4)              | 0  | 0   | 0                                   | 0                               |
| Hairstylist                                 | 463  | 352   | 75                                  | 63                              |
| Heavy Equipment Technician                  | 999  | 799   | 101                                 | 90                              |
| Heavy Equipment Technician                  | 688  | N/A   | 27                                  | N/A                             |
| Heavy Duty Equipment Mechanic (Off Road)    | 133  | 193   | 26                                  | 28                              |
| Transport Trailer Mechanic                  | 35   | N/A   | 1                                   | N/A                             |
| Truck and Transport Mechanic                | 143  | 606   | 47                                  | 62                              |
| Instrument Technician                       | 308  | 178   | 15                                  | 12                              |
| Insulator                                   | 96   | 62  | 0                                   | 0                               |
| Ironworker                                  | 86   | 50  | 65                                  | 35                              |
| Ironworker                                  | 5  | 2   | 9                                   | 4                               |
| Metal Building Systems Erector              | 8  | N/A   | 17                                  | N/A                             |
| Reinforcing                                 | 16   | 14  | 16                                  | 10                              |
| Structural/Ornamental                       | 57   | 34  | 23                                  | 21                              |
| Landscape Horticulturist (Note 5)           | 17   | 17  | 0                                   | 0                               |
| Lather-Interior Systems Mechanic            | 10   | 9   | 8                                   | 8                               |
| Locksmith                                   | 4  | N/A   | 6                                   | N/A                             |
| Machinist                                   | 125  | 102   | 4                                   | 4                               |
| Metal Fabricator (Fitter) (Note 6)          | 13   | 10  | 5                                   | 4                               |
| Millwright                                  | 391  | 367   | 32                                  | 28                              |
| Motorcycle Mechanic                         | 27   | 25  | 7                                   | 5                               |
| Natural Gas Compression Technician          | 0  | N/A   | 2                                   | N/A                             |
| Outdoor Power Equipment Technician          | 8  | N/A   | 1                                   | N/A                             |
| Power                                       | 2  | N/A   | 0                                   | N/A                             |
| Recreational                                | 6  | N/A   | 1                                   | N/A                             |
| Painter and Decorator                       | 11   | 8   | 8                                   | 6                               |
| Parts Technician                            | 186  | 147   | 19                                  | 16                              |
| Parts Technician                            | 164  | 147   | 17                                  | 16                              |
| Materials Technician                        | 22   | N/A   | 2                                   | N/A                             |
| Plumber                                     | 401  | 313   | 8                                   | 7                               |
| Plumber                                     | 1  | 2   | 8                                   | 7                               |
| Plumber & Gasfitter B                       | 400  | 311   | 0                                   | 0                               |
| Powerline Technician                        | 140  | 138   | 22                                  | 19                              |
| Power System Electrician                    | 86   | N/A   | 10                                  | N/A                             |
| Recreation Vehicle Service Technician       | 18   | 15  | 4                                   | 3                               |
| Refrigeration and Air Conditioning Mechanic | 117  | 102   | 5                                   | 4                               |
| Rig Technician                              | 89   | 77  | 70                                  | 39                              |
| Roofer                                      | 20   | 19  | 8                                   | 7                               |
| Sheet Metal Worker                          | 89   | 83  | 1                                   | 1                               |

(continued)

Table 4 (continued)

Total Number of Individuals Certified by Trade/Occupation, 2016<sup>1</sup>

| TRADE AND BRANCH/OCCUPATION             | Journeyman Certificates Issued to Completed Apprentices and Individuals Issued Occupation Certificates | Interprovincial Red Seals Issued to Completed Apprentices and Trainees<br>(Note 1) | Qualification Certificates<br>(Note 2) | Other Red Seals Issued<br>(Note 3) |
|---|--|--|--|------------------------------------|
| Sprinkler Systems Installer             | 42   | 35   | 1                                      | 1                                  |
| Steamfitter-Pipefitter                  | 733  | 433  | 89                                     | 63                                 |
| Tilesetter                              | 2  | 0  | 0                                      | 0                                  |
| Transport Refrigeration Technician      | 9  | N/A  | 0                                      | N/A                                |
| Water Well Driller                      | 11   | N/A  | 2                                      | N/A                                |
| Welder                                  | 1,349  | 1,075  | 88                                     | 78                                 |
| Welder                                  | 1,343  | 1,075  | 87                                     | 78                                 |
| Wire Processor                          | 6  | N/A  | 1                                      | N/A                                |
| <b>Total - Trades</b>                   | <b>9,206</b>   | <b>6,985</b>   | <b>1,021</b>                           | <b>806</b>                         |
| Cathodic Protection Technician          | 56   | N/A  | N/A                                    | N/A                                |
| Construction Craft Labourer             | 9  | 7  | N/A                                    | 0                                  |
| Field Heat Treatment Technician         | 10   | N/A  | N/A                                    | N/A                                |
| Gas Utility Operator                    | 20   | N/A  | N/A                                    | N/A                                |
| Industrial Construction Crew Supervisor | 239  | N/A  | N/A                                    | N/A                                |
| Oil and Gas Transportation Services     | 0  | N/A  | N/A                                    | N/A                                |
| Overhead Door Technician                | 0  | N/A  | N/A                                    | N/A                                |
| Residential Construction Site Manager   | 1  | N/A  | N/A                                    | N/A                                |
| Slickline Services                      | 0  | N/A  | N/A                                    | N/A                                |
| Snubbing Services                       | 2  | 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                                |
| <b>Total - Occupations</b>              | <b>337</b>   | <b>7</b>   | <b>N/A</b>                             | <b>0</b>                           |
| <b>TOTAL</b>                            | <b>9,543</b>   | <b>6,992</b>   | <b>1,021</b>                           | <b>806</b>                         |

Source: Alberta Advanced Education

<sup>1</sup> Individuals issued more than one certificate in 2016 are counted here only once.

N/A = Not Applicable.

**Note 1:** This number includes the number of 'Interprovincial Red Seals Issued to Completed Apprentices and Trainees' in 2016 regardless of the year the apprentices or trainees completed their training.

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

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

**Note 4:** Effective January 1, 2015, the designation of autoglass technician as a branch of the glazier trade was rescinded. Apprentices registered in the program before that date could continue in the program until December 31, 2016.

**Note 5:** Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

**Note 6:** Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

Table 5

## Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Trade/Occupation<sup>1</sup>

| TRADE AND BRANCH/OCCUPATION              | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2015-16 % change |
|--|-------|-------|-------|-------|-------|-------|------------------|
| Agricultural Equipment Technician        | 22    | 34    | 26    | 30    | 20    | 33    | 65%              |
| Appliance Service Technician             | 18    | 21    | 8     | 17    | 14    | 13    | -7%              |
| Appliance Service Technician             | 12    | 18    | 6     | 11    | 8     | 11    | 38%              |
| Commercial Appliance Service Technician  | 6     | 3     | 2     | 6     | 6     | 2     | -67%             |
| Auto Body Technician                     | 133   | 99    | 77    | 128   | 100   | 100   | 0%               |
| Auto Body Technician                     | 14    | 13    | 19    | 35    | 49    | 42    | -14%             |
| Prepper                                  | 7     | 4     | 1     | 10    | 4     | 3     | -25%             |
| Refinisher                               | 74    | 45    | 34    | 53    | 30    | 36    | 20%              |
| Repairer                                 | 38    | 37    | 23    | 30    | 17    | 19    | 12%              |
| Automotive Service Technician            | 446   | 472   | 428   | 452   | 485   | 443   | -9%              |
| Baker                                    | 39    | 37    | 30    | 32    | 44    | 36    | -18%             |
| Boilermaker                              | 56    | 66    | 68    | 60    | 71    | 80    | 13%              |
| Bricklayer                               | 36    | 39    | 35    | 29    | 29    | 27    | -7%              |
| Cabinetmaker                             | 50    | 63    | 34    | 39    | 48    | 30    | -38%             |
| Carpenter                                | 621   | 575   | 512   | 446   | 435   | 368   | -15%             |
| Communication Technician                 | 38    | 73    | 57    | 22    | 10    | 8     | -20%             |
| Concrete Finisher                        | 15    | 20    | 18    | 12    | 19    | 24    | 26%              |
| Cook                                     | 222   | 206   | 187   | 295   | 306   | 217   | -29%             |
| Crane and Hoisting Equipment Operator    | 455   | 443   | 466   | 568   | 557   | 517   | -7%              |
| Boom Truck                               | 163   | 137   | 150   | 206   | 188   | 150   | -20%             |
| Mobile Crane                             | 132   | 124   | 108   | 149   | 172   | 279   | 62%              |
| Tower Crane                              | 7     | 1     | 3     | 14    | 11    | 14    | 27%              |
| Wellhead Boom Truck                      | 153   | 181   | 205   | 199   | 186   | 74    | -60%             |
| Electric Motor Systems Technician        | 8     | 13    | 5     | 11    | 8     | 7     | -13%             |
| Electrician                              | 1,554 | 1,485 | 1,363 | 1,509 | 1,545 | 1,641 | 6%               |
| Elevator Constructor                     | 60    | 44    | 43    | 43    | 20    | 24    | 20%              |
| Floorcovering Installer                  | 10    | 5     | 6     | 5     | 0     | 6     | N/A              |
| Gasfitter                                | 90    | 86    | 91    | 118   | 90    | 115   | 28%              |
| Gasfitter A                              | 80    | 72    | 82    | 92    | 74    | 97    | 31%              |
| Gasfitter B                              | 10    | 14    | 9     | 26    | 16    | 18    | 13%              |
| Glazier                                  | 43    | 55    | 36    | 54    | 30    | 32    | 7%               |
| Glazier                                  | 43    | 55    | 36    | 53    | 30    | 32    | 7%               |
| Auto Glass Technician (Note 1)           | 0     | 0     | 0     | 1     | 0     | 0     | N/A              |
| Hairstylist                              | 655   | 597   | 400   | 567   | 528   | 538   | 2%               |
| Heavy Equipment Technician               | 905   | 820   | 812   | 894   | 1,012 | 1,100 | 9%               |
| Heavy Equipment Technician               | 606   | 569   | 523   | 532   | 611   | 715   | 17%              |
| Heavy Duty Equipment Mechanic (Off Road) | 127   | 111   | 135   | 148   | 161   | 159   | -1%              |
| Transport Trailer Mechanic               | 33    | 28    | 24    | 38    | 40    | 36    | -10%             |
| Truck and Transport Mechanic             | 139   | 112   | 130   | 176   | 200   | 190   | -5%              |
| Instrument Technician                    | 281   | 243   | 198   | 258   | 291   | 323   | 11%              |
| Insulator                                | 56    | 86    | 91    | 111   | 90    | 96    | 7%               |
| Ironworker                               | 137   | 131   | 158   | 200   | 197   | 151   | -23%             |
| Ironworker                               | 11    | 18    | 19    | 26    | 17    | 14    | -18%             |
| Metal Building Systems Erector           | 8     | 8     | 12    | 13    | 16    | 25    | 56%              |
| Reinforcing                              | 45    | 34    | 37    | 61    | 48    | 32    | -33%             |
| Structural/Ornamental                    | 73    | 71    | 90    | 100   | 116   | 80    | -31%             |
| Landscape Horticulturist (Note 2)        | 19    | 22    | 20    | 24    | 21    | 17    | -19%             |
| Lather-Interior Systems Mechanic         | 9     | 22    | 9     | 9     | 10    | 18    | 80%              |
| Locksmith                                | 9     | 5     | 7     | 7     | 4     | 10    | 150%             |

(continued)



Table 5 (continued)

## Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Trade/Occupation<sup>1</sup>

| TRADE AND BRANCH/OCCUPATION                 | 2011         | 2012         | 2013         | 2014          | 2015          | 2016          | 2015-16 % change |
|---|--------------|--------------|--------------|---------------|---------------|---------------|------------------|
| Machinist                                   | 164          | 97           | 81           | 86            | 87            | 129           | 48%              |
| Metal Fabricator (Fitter) (Note 3)          | 13           | 18           | 17           | 30            | 22            | 18            | -18%             |
| Millwright                                  | 387          | 274          | 244          | 238           | 284           | 423           | 49%              |
| Motorcycle Mechanic                         | 43           | 44           | 26           | 25            | 35            | 34            | -3%              |
| Natural Gas Compression Technician          | 0            | 3            | 2            | 3             | 3             | 2             | -33%             |
| Outdoor Power Equipment Technician (Note 4) | 15           | 8            | 9            | 9             | 10            | 9             | -10%             |
| Power                                       | 4            | 4            | 8            | 1             | 5             | 2             | -60%             |
| Turf  | 0            | N/A          | N/A          | N/A           | N/A           | N/A           | N/A              |
| Marine                                      | 1            | N/A          | N/A          | N/A           | N/A           | N/A           | N/A              |
| Recreational                                | 10           | 4            | 1            | 8             | 5             | 7             | 40%              |
| Painter and Decorator                       | 14           | 15           | 13           | 18            | 15            | 19            | 27%              |
| Parts Technician                            | 159          | 149          | 142          | 177           | 223           | 205           | -8%              |
| Parts Technician                            | 155          | 138          | 113          | 150           | 205           | 181           | -12%             |
| Materials Technician                        | 4            | 11           | 29           | 27            | 18            | 24            | 33%              |
| Plumber                                     | 600          | 594          | 464          | 497           | 446           | 409           | -8%              |
| Plumber                                     | 6            | 14           | 10           | 25            | 21            | 9             | -57%             |
| Plumber & Gasfitter B                       | 594          | 580          | 454          | 472           | 425           | 400           | -6%              |
| Powerline Technician                        | 137          | 167          | 125          | 187           | 170           | 162           | -5%              |
| Power System Electrician                    | 51           | 51           | 70           | 97            | 88            | 96            | 9%               |
| Recreation Vehicle Service Technician       | 39           | 18           | 14           | 11            | 13            | 22            | 69%              |
| Refrigeration and Air Conditioning Mechanic | 124          | 86           | 104          | 106           | 131           | 122           | -7%              |
| Rig Technician                              | 159          | 189          | 204          | 283           | 246           | 159           | -35%             |
| Roofer                                      | 22           | 25           | 22           | 38            | 39            | 28            | -28%             |
| Sawfiler (Note 5)                           | 4            | 2            | 1            | N/A           | N/A           | N/A           | N/A              |
| Sawfiler                                    | 2            | 2            | 1            | N/A           | N/A           | N/A           | N/A              |
| Circular Sawfiler                           | 2            | 0            | 0            | N/A           | N/A           | N/A           | N/A              |
| Sheet Metal Worker                          | 128          | 171          | 112          | 164           | 130           | 90            | -31%             |
| Sprinkler Systems Installer                 | 69           | 46           | 52           | 27            | 26            | 43            | 65%              |
| Steamfitter-Pipefitter                      | 517          | 533          | 509          | 751           | 675           | 822           | 22%              |
| Tilesetter                                  | 7            | 5            | 8            | 3             | 2             | 2             | 0%               |
| Tool and Die Maker (Note 6)                 | 1            | N/A          | N/A          | N/A           | N/A           | N/A           | N/A              |
| Transport Refrigeration Technician          | 8            | 9            | 5            | 5             | 3             | 9             | 200%             |
| Water Well Driller                          | 12           | 10           | 5            | 8             | 7             | 13            | 86%              |
| Welder                                      | 1,098        | 945          | 983          | 1,442         | 1,636         | 1,437         | -12%             |
| Welder                                      | 1,093        | 936          | 957          | 1,410         | 1,624         | 1,430         | -12%             |
| Wire Processor                              | 5            | 9            | 26           | 32            | 12            | 7             | -42%             |
| <b>Total - Trades</b>                       | <b>9,758</b> | <b>9,221</b> | <b>8,397</b> | <b>10,145</b> | <b>10,275</b> | <b>10,227</b> | <b>0%</b>        |
| Cathodic Protection Technician (Note 7)     | N/A          | N/A          | 3            | 123           | 108           | 56            | -48%             |
| Construction Craft Labourer                 | 25           | 25           | 3            | 5             | 9             | 9             | 0%               |
| Field Heat Treatment Technician             | 23           | 11           | 16           | 12            | 16            | 10            | -38%             |
| Gas Utility Operator                        | 5            | 8            | 13           | 26            | 16            | 20            | 25%              |
| Industrial Construction Crew Supervisor     | 55           | 110          | 123          | 253           | 255           | 239           | -6%              |
| Oil and Gas Transportation Services         | 0            | 0            | 0            | 0             | 0             | 0             | N/A              |
| Overhead Door Technician (Note 8)           | N/A          | N/A          | N/A          | N/A           | 1             | 0             | -100%            |
| Residential Construction Site Manager       | 0            | 0            | 0            | 0             | 0             | 1             | N/A              |
| Slickline Services (Note 9)                 | N/A          | N/A          | 0            | 0             | 0             | 0             | N/A              |

(continued)

Table 5 (continued)

## Completed Apprentices Combined with Individuals Issued Qualification Certificates, and Individuals Issued Occupation Certificates by Trade/Occupation<sup>1</sup>

| TRADE AND BRANCH/OCCUPATION      | 2011         | 2012         | 2013         | 2014          | 2015          | 2016          | 2015-16 % change |
|----------------------------------|--------------|--------------|--------------|---------------|---------------|---------------|------------------|
| Snubbing Services                | 10           | 5            | 5            | 3             | 1             | 2             | 100%             |
| Steel Detailer                   | 13           | 0            | 0            | 0             | 0             | 0             | N/A              |
| Well Testing Services Supervisor | 15           | 1            | 2            | 2             | 0             | 0             | N/A              |
| Total - Occupations              | 146          | 160          | 165          | 424           | 406           | 337           | -17%             |
| <b>TOTAL</b>                     | <b>9,904</b> | <b>9,381</b> | <b>8,562</b> | <b>10,569</b> | <b>10,681</b> | <b>10,564</b> | <b>-1%</b>       |

Source: Alberta Advanced Education

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

N/A = Not Applicable. Data does not exist or has a zero value in one or more of the specified years.

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

**Note 2:** Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

**Note 3:** Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

**Note 4:** Effective September 1, 2011, the old four-period marine and recreational branches of the outdoor power equipment technician trade changed to the new three-period recreational branch of the trade, and the old four-period turf and power branches changed to the new three-period power branch.

**Note 5:** Effective July 1, 2013, the designation of the trade of sawfiler was rescinded.

**Note 6:** Effective April 1, 2011, the designation of the trade of tool and die maker was rescinded.

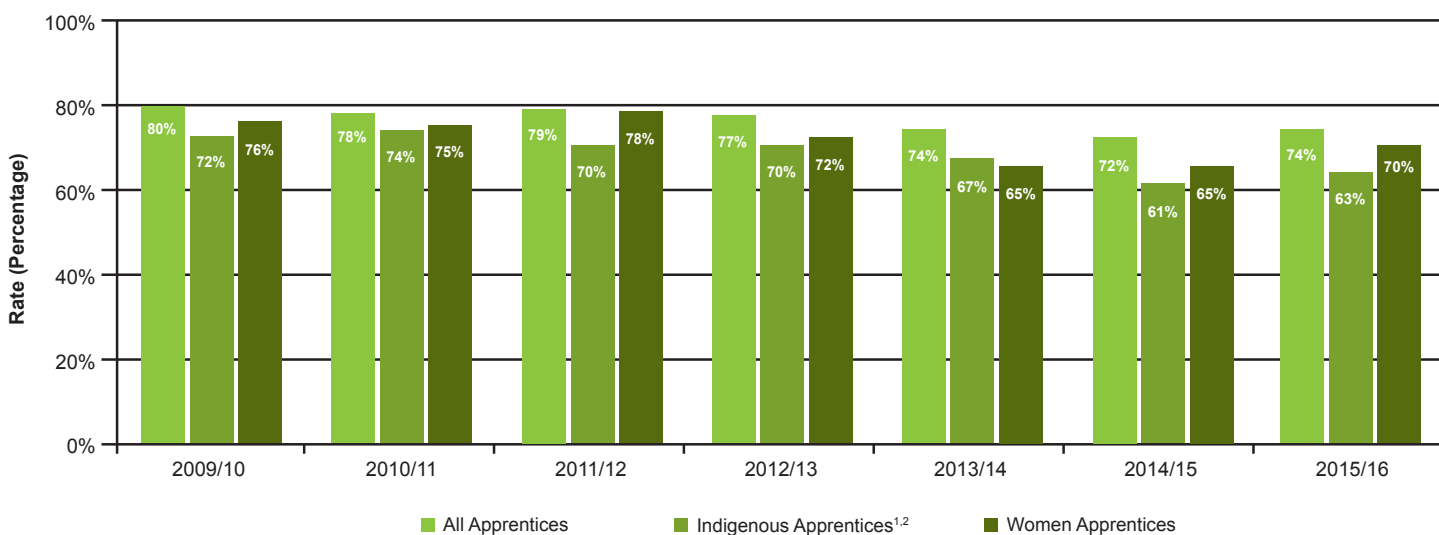
**Note 7:** Cathodic protection technician became a designated occupation on February 4, 2013.

**Note 8:** Overhead door technician became a designated occupation on January 1, 2015.

**Note 9:** Slickline services became a designated occupation on September 30, 2013.

Chart 5

## Apprentice Completion Rate by Year



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

<sup>2</sup> 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.

Source: Alberta Advanced Education

**Notes:**

Year = July 1 to June 30

The cohort of apprentices that is followed are those who have completed all the requirements for their first period of apprenticeship training (including technical training, on-the-job training and period exams) and went on to complete their program within two years past the normally expected completion date.

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

Table 6

Technical Training Attendance by Institution and School Year<sup>1</sup>

| INSTITUTION                                      | 2011/12       | 2012/13       | 2013/14       | 2014/15       | 2015/16       | 2016/17 <sup>1</sup> |
|--|---------------|---------------|---------------|---------------|---------------|----------------------|
| Delmar College of Hair Design <i>(Note 1)</i>    | 127           | 90            | 74            | 77            | 89            | 50                   |
| Eveline Charles Academy <i>(Notes 1 &amp; 2)</i> | 57            | N/A           | N/A           | N/A           | N/A           | N/A                  |
| Grande Prairie Regional College                  | 1,013         | 1,164         | 1,406         | 1,584         | 1,570         | 1,296                |
| Keyano College                                   | 781           | 751           | 831           | 858           | 798           | 642                  |
| Lakeland College                                 | 952           | 1,133         | 1,306         | 1,438         | 1,397         | 1,052                |
| Lethbridge College                               | 777           | 858           | 989           | 1,048         | 1,035         | 921                  |
| Marvel College <i>(Notes 1 &amp; 2)</i>          | N/A           | 52            | 62            | 81            | 79            | 73                   |
| Medicine Hat College                             | 566           | 633           | 736           | 804           | 705           | 527                  |
| Northern Alberta Institute of Technology         | 11,491        | 11,907        | 12,922        | 14,064        | 14,404        | 12,926               |
| Northern Lakes College                           | 166           | 211           | 240           | 295           | 259           | 146                  |
| Olds College                                     | 300           | 358           | 417           | 434           | 399           | 336                  |
| Portage College                                  | 134           | 138           | 174           | 184           | 155           | 109                  |
| Red Deer College                                 | 2,284         | 2,484         | 2,941         | 3,462         | 3,462         | 2,875                |
| Southern Alberta Institute of Technology         | 7,037         | 7,427         | 7,963         | 8,793         | 9,145         | 8,299                |
| Other Training Providers <i>(Note 3)</i>         | 446           | 417           | 396           | 294           | 526           | 463                  |
| <b>TOTAL</b>                                     | <b>26,131</b> | <b>27,623</b> | <b>30,457</b> | <b>33,416</b> | <b>34,023</b> | <b>29,715</b>        |

Source: Alberta Advanced Education

<sup>1</sup> These statistics cover the school year from August 1 to July 31 for each year represented, with the exception of the 2016/17 school year. The data for this year is the attendance as of the date of printing (April 2017).

**Note 1:** Delmar College, Eveline Charles Academy and Marvel College provide technical training for hairstylists. The hairstylist trade has a two-year apprenticeship program.

**Note 2:** Between August 1, 2009 and July 31, 2012, Eveline Charles Academy provided hairstylist training in the northern part of the province. As of August 1, 2012, Marvel College has been providing the hairstylist training for northern Alberta.

**Note 3:** 'Other' training providers may not provide apprenticeship technical training every year. Other training providers for 2016/17 include:

*Alberta Carpenters Training Centre* - provides technical training for its carpenters

*ATCO Electric* - provides technical training for its powerline technician apprentices

*Edmonton Pipe Trades Educational Trust* - provides technical training for its plumbers, steamfitter-pipefitters and welders

*Enform* - (previously Petroleum Industry Training Service) provides training for the wellhead boom truck branch of the crane and hoisting equipment operator trade

*FortisAlberta Inc.* - (previously Aquila Networks Canada, Utilicorp Networks Canada and Trans Alta Utilities) provides technical training for its powerline technician apprentices.

*Operating Engineers Local 955 Apprenticeship and Education* - (previously Alberta Operating Engineers Training Centre) provides technical for its mobile crane and hoisting equipment operators

Table 7

## Total Number of Apprentices Registered by Trade and Period (or Year) of Technical Training, 2016<sup>1</sup>

| TRADE AND BRANCH                         | 1st Period | 2nd Period | 3rd Period | 4th Period | TT Completed<br>(Note 1) | Total Apprentices |
|--|------------|------------|------------|------------|--------------------------|-------------------|
| Agricultural Equipment Technician        | 62         | 25         | 34         | 24         | 19                       | 164               |
| Appliance Service Technician             | 41         | 10         | 11         | N/A        | 13                       | 75                |
| Appliance Service Technician             | 37         | 9          | 11         | N/A        | 13                       | 70                |
| Commercial Appliance Service Technician  | 4          | 1          | N/A*       | N/A        | 0                        | 5                 |
| Auto Body Technician                     | 214        | 207        | 127        | 67         | 50                       | 665               |
| Auto Body Technician                     | 148        | 149        | 114        | 67         | 26                       | 504               |
| Prepper                                  | 18         | N/A*       | N/A        | N/A        | 6                        | 24                |
| Refinisher                               | 34         | 46         | N/A        | N/A        | 14                       | 94                |
| Repairer                                 | 14         | 12         | 13         | N/A        | 4                        | 43                |
| Automotive Service Technician            | 1,093      | 689        | 600        | 479        | 207                      | 3,068             |
| Baker                                    | 47         | 37         | 14         | N/A        | 79                       | 177               |
| Boilermaker                              | 194        | 187        | 117        | N/A        | 29                       | 527               |
| Bricklayer                               | 59         | 52         | 48         | N/A        | 11                       | 170               |
| Cabinetmaker                             | 82         | 81         | 54         | 34         | 6                        | 257               |
| Carpenter                                | 1,052      | 707        | 576        | 602        | 167                      | 3,104             |
| Communication Technician                 | 61         | 6          | 16         | 35         | 17                       | 135               |
| Concrete Finisher                        | 42         | 3          | N/A*       | N/A        | 12                       | 57                |
| Cook                                     | 355        | 164        | 228        | N/A        | 230                      | 977               |
| Crane and Hoisting Equipment Operator    | 1,592      | N/A*       | 464        | N/A        | 298                      | 2,354             |
| Boom Truck                               | 765        | N/A        | N/A        | N/A        | 62                       | 827               |
| Mobile Crane                             | 245        | N/A*       | 464        | N/A        | 95                       | 804               |
| Tower Crane                              | 45         | N/A*       | N/A        | N/A        | 8                        | 53                |
| Wellhead Boom Truck                      | 537        | N/A        | N/A        | N/A        | 133                      | 670               |
| Electric Motor Systems Technician        | 16         | 6          | 3          | 8          | 2                        | 35                |
| Electrician                              | 2,345      | 3,285      | 2,778      | 2,683      | 623                      | 11,714            |
| Elevator Constructor                     | 0          | 0          | 0          | 276        | 42                       | 318               |
| Floorcovering Installer                  | 21         | 13         | N/A        | N/A        | 1                        | 35                |
| Gasfitter                                | 136        | 140        | 180        | N/A        | 50                       | 506               |
| Gasfitter A                              | 83         | 109        | 180        | N/A        | 48                       | 420               |
| Gasfitter B                              | 53         | 31         | N/A        | N/A        | 2                        | 86                |
| Glazier                                  | 110        | 53         | 82         | 32         | 10                       | 287               |
| Glazier                                  | 110        | 53         | 82         | 32         | 10                       | 287               |
| Auto Glass Technician (Note 2)           | 0          | 0          | 0          | 0          | 0                        | 0                 |
| Hairstylist                              | 846        | 368        | N/A        | N/A        | 1,004                    | 2,218             |
| Heavy Equipment Technician               | 1,304      | 954        | 1,324      | 902        | 449                      | 4,933             |
| Heavy Equipment Technician               | 910        | 719        | 969        | 902        | 342                      | 3,842             |
| Heavy Duty Equipment Mechanic (Off Road) | 126        | 87         | 135        | N/A        | 39                       | 387               |
| Transport Trailer Mechanic               | 86         | N/A*       | N/A        | N/A        | 31                       | 117               |
| Truck and Transport Mechanic             | 182        | 148        | 220        | N/A        | 37                       | 587               |
| Instrument Technician                    | 408        | 301        | 335        | 291        | 245                      | 1,580             |
| Insulator                                | 401        | 173        | 164        | N/A        | 18                       | 756               |
| Ironworker                               | 1,005      | 328        | 208        | 31         | 75                       | 1,647             |
| Ironworker                               | 191        | 52         | 77         | 31         | 7                        | 358               |
| Metal Building Systems Erector           | 36         | 34         | N/A        | N/A        | 7                        | 77                |
| Reinforcing                              | 238        | 30         | N/A        | N/A        | 2                        | 270               |
| Structural/Ornamental                    | 540        | 212        | 131        | N/A        | 59                       | 942               |
| Landscape Horticulturist (Note 3)        | 56         | 29         | 21         | 25         | 24                       | 155               |
| Lather-Interior Systems Mechanic         | 59         | 12         | 36         | N/A        | 4                        | 111               |
| Locksmith                                | 90         | 32         | 20         | 0          | 1                        | 143               |

(continued)

Table 7 (continued)

## Total Number of Apprentices Registered by Trade and Period (or Year) of Technical Training, 2016<sup>1</sup>

| TRADE AND BRANCH                               | 1st Period    | 2nd Period    | 3rd Period    | 4th Period   | TT Completed<br>(Note 1) | Total Apprentices |
|--|---------------|---------------|---------------|--------------|--------------------------|-------------------|
| Machinist                                      | 101           | 79            | 129           | 141          | 79                       | 529               |
| Metal Fabricator (Fitter) (Note 4)             | 26            | 45            | 23            | N/A          | 5                        | 99                |
| Millwright                                     | 397           | 359           | 416           | 460          | 182                      | 1,814             |
| Motorcycle Mechanic                            | 55            | 36            | 39            | 40           | 16                       | 186               |
| Natural Gas Compression Technician             | 2             | 5             | 8             | 9            | 0                        | 24                |
| Outdoor Power Equipment Technician             | 34            | 12            | 14            | N/A          | 3                        | 63                |
| Power  | 11            | 3             | 6             | N/A          | 0                        | 20                |
| Recreational                                   | 23            | 9             | 8             | N/A          | 3                        | 43                |
| Painter and Decorator                          | 62            | 32            | 13            | N/A          | 13                       | 120               |
| Parts Technician                               | 336           | 298           | 257           | N/A          | 62                       | 953               |
| Parts Technician                               | 284           | 265           | 247           | N/A          | 56                       | 852               |
| Materials Technician                           | 52            | 33            | 10            | N/A          | 6                        | 101               |
| Plumber  | 1,069         | 903           | 942           | 673          | 188                      | 3,775             |
| Plumber  | 1             | 6             | 3             | 1            | 2                        | 13                |
| Plumber & Gasfitter B                          | 1,068         | 897           | 939           | 672          | 186                      | 3,762             |
| Powerline Technician                           | 132           | 172           | 222           | N/A*         | 146                      | 672               |
| Power System Electrician                       | 45            | 25            | 87            | 65           | 38                       | 260               |
| Recreation Vehicle Service Technician          | 70            | 47            | 19            | N/A          | 15                       | 151               |
| Refrigeration and Air Conditioning<br>Mechanic | 246           | 226           | 168           | 165          | 39                       | 844               |
| Rig Technician                                 | 260           | 229           | 577           | N/A          | 81                       | 1,147             |
| Roofer   | 117           | 45            | 44            | N/A*         | 11                       | 217               |
| Sheet Metal Worker                             | 606           | 325           | 230           | 249          | 18                       | 1,428             |
| Sprinkler Systems Installer                    | 99            | 105           | 86            | N/A*         | 32                       | 322               |
| Steamfitter-Pipefitter                         | 1,520         | 1,264         | 1,158         | N/A          | 269                      | 4,211             |
| Tilessetter                                    | 6             | 1             | N/A*          | N/A          | 4                        | 11                |
| Transport Refrigeration Technician             | 8             | 4             | 4             | N/A          | 9                        | 25                |
| Water Well Driller                             | 10            | 22            | N/A           | N/A          | 2                        | 34                |
| Welder   | 1,551         | 1,083         | 1,990         | N/A          | 660                      | 5,284             |
| Welder   | 1,520         | 1,083         | 1,990         | N/A          | 655                      | 5,248             |
| Wire Processor                                 | 31            | N/A*          | N/A           | N/A          | 5                        | 36                |
| <b>TOTAL</b>                                   | <b>18,443</b> | <b>13,179</b> | <b>13,866</b> | <b>7,291</b> | <b>5,558</b>             | <b>58,337</b>     |

Source: Alberta Advanced Education

<sup>1</sup> These statistics are as of December 31, 2016.

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

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

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

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

**Note 3:** Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

**Note 4:** Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

Table 8

## Number of Apprentices Registered, Certified and Attending Technical Training by Apprenticeship and Industry Training Office<sup>1</sup>, 2016<sup>2</sup>

| OFFICE REGION  | Total Apprentices Registered | New Apprentices Registered | Apprentices Certified | Technical Training Attendance <sup>3</sup> |
|--|------------------------------|----------------------------|-----------------------|--|
| Bonnyville   | 1,214                        | 226                        | 198                   | 710  |
| Calgary  | 15,017                       | 3,461                      | 2,129                 | 8,136                                      |
| Edmonton   | 25,471                       | 5,976                      | 3,939                 | 13,610                                     |
| Fort McMurray  | 2,252                        | 436                        | 415                   | 1,336                                      |
| Grande Prairie   | 2,692                        | 509                        | 458                   | 1,497                                      |
| Hinton   | 1,342                        | 293                        | 209                   | 812  |
| Lethbridge   | 2,127                        | 502                        | 314                   | 1,156                                      |
| Medicine Hat   | 1,378                        | 248                        | 210                   | 719  |
| Peace River  | 715                          | 138                        | 105                   | 386  |
| Red Deer   | 4,161                        | 952                        | 856                   | 2,692                                      |
| Slave Lake   | 654                          | 137                        | 114                   | 415  |
| Vermilion  | 1,306                        | 216                        | 258                   | 965  |
| <b>Total - Office Regions</b>  | <b>58,329</b>                | <b>13,094</b>              | <b>9,205</b>          | <b>32,434</b>                              |
| Interprovincial - Training Only <i>(Note 1)</i>                            | N/A                          | N/A                        | N/A                   | 423  |
| Interprovincial/International - Training and Certification <i>(Note 2)</i> | 8                            | 0                          | 1                     | 6  |
| <b>Total - Other</b>   | <b>8</b>                     | <b>0</b>                   | <b>1</b>              | <b>429</b>                                 |
| <b>TOTAL</b>   | <b>58,337</b>                | <b>13,094</b>              | <b>9,206</b>          | <b>32,863</b>                              |

*(Note 3)*

Source: Alberta Advanced Education

<sup>1</sup> See map on page v for Apprenticeship and Industry Training office regions.<sup>2</sup> This table represents statistics covering the January to December 2016 calendar year. Technical training in Table 6 is reported as school year. For this table only, the technical training statistics cover the calendar year for comparability within this table.<sup>3</sup> Attendance reflects the number of technical training seats occupied.

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

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

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

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

Table 9

## Number of Committee Meetings by Trade/Occupation and Year

| TRADE/OCCUPATION                            | Provincial Apprenticeship Committees<br>(Full, Sub and Special ) and Occupational<br>Committees (Notes 1 & 2) |      |      |      |      |      |       | Local Apprenticeship<br>Committees<br>(Note 3) |      |      |      |      |      |       | Number<br>of LACs |
|---|---|------|------|------|------|------|-------|--|------|------|------|------|------|-------|-------------------|
|   | 2011  | 2012 | 2013 | 2014 | 2015 | 2016 | Total | 2011   | 2012 | 2013 | 2014 | 2015 | 2016 | Total |                   |
| Agricultural Equipment Technician           | 1   | 3    | 5    | 2    | 1    | 3    | 15    |  |      |      |      |      |      |       | 0                 |
| Appliance Service Technician                | 3   | 8    | 2    | 2    | 7    | 3    | 25    | 0  | 1    | 0    | 0    | 0    | 0    | 1     | 1                 |
| Auto Body Technician                        | 2   | 5    | 3    | 3    | 9    | 8    | 30    | 2  | 0    | 2    | 2    | 0    | 0    | 6     | 2                 |
| Automotive Service Technician               | 3   | 9    | 0    | 4    | 3    | 10   | 29    | 1  | 3    | 4    | 3    | 6    | 4    | 21    | 7                 |
| Baker                                       | 6   | 7    | 2    | 3    | 4    | 3    | 25    | 0  | 0    | 2    | 1    | 1    | 3    | 7     | 2                 |
| Boilermaker                                 | 1   | 1    | 0    | 3    | 2    | 3    | 10    |  |      |      |      |      |      |       | 0                 |
| Bricklayer                                  | 5   | 3    | 2    | 2    | 5    | 2    | 19    | 2  | 2    | 2    | 1    | 3    | 3    | 13    | 2                 |
| Cabinetmaker                                | 3   | 0    | 1    | 5    | 2    | 2    | 13    | 1  | 2    | 0    | 1    | 3    | 0    | 7     | 2                 |
| Carpenter                                   | 1   | 0    | 8    | 10   | 8    | 1    | 28    | 8  | 2    | 4    | 5    | 6    | 2    | 27    | 8                 |
| Communication Technician                    | 5   | 5    | 4    | 4    | 4    | 1    | 23    | 0  | 1    | 1    | 2    | 2    | 2    | 8     | 2                 |
| Concrete Finisher                           | 0   | 4    | 1    | 0    | 1    | 1    | 7     |  |      |      |      |      |      |       | 0                 |
| Cook  | 2   | 2    | 9    | 3    | 5    | 2    | 23    | 2  | 2    | 2    | 3    | 4    | 4    | 17    | 3                 |
| Crane and Hoisting Equipment Operator       | 4   | 5    | 2    | 5    | 5    | 4    | 25    | 2  | 2    | 3    | 3    | 0    | 0    | 10    | 4                 |
| Electric Motor Systems Technician           | 1   | 1    | 3    | 2    | 6    | 7    | 20    | 0  | 2    | 0    | 0    | 1    |      | 3     | 0                 |
| Electrician                                 | 8   | 12   | 5    | 9    | 4    | 9    | 47    | 7  | 4    | 5    | 2    | 6    | 6    | 30    | 9                 |
| Elevator Constructor                        | 1   | 0    | 2    | 2    | 3    | 4    | 12    |  |      |      |      |      |      |       | 0                 |
| Floorcovering Installer                     | 5   | 3    | 1    | 1    | 0    | 3    | 13    |  |      |      |      |      |      |       | 0                 |
| Gasfitter                                   | 0   | 0    | 3    | 7    | 12   | 8    | 30    | 0  | 0    | 0    | 1    | 1    | 3    | 5     | 2                 |
| Glazier                                     | 0   | 9    | 9    | 5    | 2    | 3    | 28    | 1  | 2    | 3    | 0    | 1    | 0    | 7     | 2                 |
| Hairstylist                                 | 3   | 3    | 2    | 4    | 3    | 5    | 20    | 3  | 4    | 2    | 5    | 8    | 6    | 28    | 7                 |
| Heavy Equipment Technician                  | 6   | 8    | 6    | 7    | 8    | 4    | 39    | 5  | 7    | 4    | 6    | 7    | 4    | 33    | 8                 |
| Instrument Technician                       | 7   | 7    | 3    | 6    | 4    | 3    | 30    | 0  | 0    | 0    | 0    | 0    | 0    | 0     | 1                 |
| Insulator                                   | 2   | 9    | 3    | 3    | 3    | 0    | 20    |  |      |      |      |      |      |       | 0                 |
| Ironworker                                  | 4   | 0    | 5    | 7    | 9    | 5    | 30    |  |      |      |      |      |      |       | 0                 |
| Landscape Horticulturist (Note 4)           | 7   | 1    | 2    | 2    | 2    | 3    | 17    | 1  | 1    | 0    | 1    | 0    | 1    | 4     | 1                 |
| Lather-Interior Systems Mechanic            | 1   | 1    | 1    | 1    | 2    | 1    | 7     |  |      |      |      |      |      |       | 0                 |
| Locksmith                                   | 0   | 1    | 1    | 5    | 9    | 9    | 25    | 0  | 0    | 0    | 1    | 0    | 1    | 2     | 1                 |
| Machinist                                   | 1   | 8    | 1    | 16   | 3    | 2    | 31    | 2  | 2    | 3    | 0    | 2    | 3    | 12    | 2                 |
| Metal Fabricator (Fitter) (Note 5)          | 1   | 2    | 8    | 6    | 1    | 1    | 19    |  |      |      |      |      |      |       | 0                 |
| Millwright                                  | 2   | 5    | 6    | 2    | 4    | 8    | 27    | 2  | 2    | 1    | 3    | 2    | 3    | 13    | 3                 |
| Motorcycle Mechanic                         | 7   | 5    | 4    | 2    | 2    | 1    | 21    | 0  | 3    | 1    | 1    | 2    | 0    | 7     | 2                 |
| Natural Gas Compression Technician          | 0   | 1    | 0    | 1    | 1    | 0    | 3     |  |      |      |      |      |      |       | 0                 |
| Outdoor Power Equipment Technician          | 5   | 5    | 1    | 2    | 0    | 2    | 15    | 0  | 0    | 0    |      |      |      |       | 0                 |
| Painter and Decorator                       | 1   | 2    | 1    | 1    | 1    | 9    | 15    | 0  | 1    | 3    | 2    | 1    | 1    | 8     | 2                 |
| Parts Technician                            | 3   | 4    | 6    | 5    | 4    | 4    | 26    | 2  | 2    | 1    | 4    | 3    | 1    | 13    | 3                 |
| Plumber                                     | 0   | 1    | 2    | 1    | 5    | 12   | 21    | 2  | 1    | 1    | 2    | 3    | 3    | 12    | 4                 |
| Powerline Technician                        | 2   | 7    | 6    | 8    | 8    | 2    | 33    | 0  | 2    | 1    | 2    | 1    | 2    | 8     | 2                 |
| Power System Electrician                    | 3   | 3    | 7    | 3    | 7    | 4    | 27    |  |      |      |      |      |      |       | 0                 |
| Recreation Vehicle Service Technician       | 0   | 1    | 3    | 8    | 4    | 0    | 16    | 2  | 3    | 2    | 1    | 0    | 0    | 8     | 2                 |
| Refrigeration and Air Conditioning Mechanic | 10  | 4    | 6    | 6    | 4    | 9    | 39    | 1  | 1    | 2    | 0    | 2    | 1    | 7     | 2                 |
| Rig Technician                              | 2   | 4    | 2    | 2    | 3    | 2    | 15    |  |      |      |      |      |      |       | 0                 |
| Roofer                                      | 7   | 7    | 2    | 2    | 0    | 1    | 19    |  |      |      |      |      |      |       | 0                 |
| Sawfiler                                    | 1   | 0    |      |      |      |      | 1     |  |      |      |      |      |      |       |                   |

(continued)

Table 9 (continued)

## Number of Committee Meetings by Trade/Occupation and Year

| TRADE/OCCUPATION   | Provincial Apprenticeship Committees<br>(Full, Sub and Special) and Occupational<br>Committees (Notes 1 & 2) |            |            |            |            |            |              | Local Apprenticeship<br>Committees<br>(Note 3) |           |           |           |           |           |            | Number<br>of LACs |
|--|--|------------|------------|------------|------------|------------|--------------|--|-----------|-----------|-----------|-----------|-----------|------------|-------------------|
|  | 2011   | 2012       | 2013       | 2014       | 2015       | 2016       | Total        | 2011   | 2012      | 2013      | 2014      | 2015      | 2016      | Total      |                   |
| Sheet Metal Worker   | 11   | 2          | 3          | 2          | 4          | 12         | 34           | 4  | 2         | 3         | 2         | 1         | 3         | 15         | 4                 |
| Sprinkler Systems Installer                                    | 2  | 0          | 3          | 1          | 5          | 3          | 14           | 0  | 1         | 1         | 0         | 1         | 0         | 3          | 1                 |
| Steamfitter-Pipefitter   | 2  | 5          | 5          | 1          | 13         | 9          | 35           | 0  | 0         | 1         | 0         | 1         | 2         | 4          | 3                 |
| Tilesetter   | 4  | 3          | 6          | 1          | 0          | 2          | 16           | 1  | 0         | 0         | 0         | 0         | 0         | 1          | 1                 |
| Tool and Die Maker   | 0  |            |            |            |            |            | 5            |  |           |           |           |           |           |            |                   |
| Transport Refrigeration<br>Technician                          | 0  | 3          | 4          | 7          | 2          | 4          | 20           |  |           |           |           |           |           |            | 0                 |
| Water Well Driller   | 1  | 1          | 5          | 5          | 2          | 2          | 16           |  |           |           |           |           |           |            | 0                 |
| Welder   | 1  | 1          | 6          | 9          | 7          | 1          | 25           | 1  | 2         | 3         | 4         | 4         | 5         | 19         | 9                 |
| <b>Total Meetings - Trades (Note 6)</b>                        | <b>152</b>   | <b>174</b> | <b>169</b> | <b>190</b> | <b>195</b> | <b>191</b> | <b>1,071</b> | <b>52</b>                                      | <b>57</b> | <b>57</b> | <b>58</b> | <b>72</b> | <b>63</b> | <b>359</b> | <b>104</b>        |
| Cathodic Protection Technician                                 |  |            | 1          | 1          | 2          | 2          | 6            |  |           |           |           |           |           |            |                   |
| Construction Craft Labourer                                    | 0  | 1          | 0          | 1          | 2          | 2          | 6            |  |           |           |           |           |           |            |                   |
| Field Heat Treatment<br>Technician                             | 2  | 2          | 2          | 1          | 0          | 1          | 8            |  |           |           |           |           |           |            |                   |
| Gas Utility Operator   | 2  | 0          | 1          | 2          | 2          | 3          | 10           |  |           |           |           |           |           |            |                   |
| Industrial Construction Crew<br>Supervisor                     | 2  | 2          | 2          | 0          | 3          | 1          | 10           |  |           |           |           |           |           |            |                   |
| Oil and Gas Transportation<br>Services (Note 7)                |  |            |            |            |            |            |              |  |           |           |           |           |           |            |                   |
| Overhead Door Technician                                       |  |            |            |            | 9          | 2          | 11           |  |           |           |           |           |           |            |                   |
| Petroleum Competency<br>Program Steering Committee<br>(Note 7) | 1  | 0          | 0          | 0          | 0          | 0          | 1            |  |           |           |           |           |           |            |                   |
| Residential Construction Site<br>Manager                       | 3  | 0          | 1          | 0          | 0          | 0          | 4            |  |           |           |           |           |           |            |                   |
| Slickline Services (Note 7)                                    |  |            |            |            |            |            |              |  |           |           |           |           |           |            |                   |
| Snubbing Services (Note 7)                                     |  |            |            |            |            |            |              |  |           |           |           |           |           |            |                   |
| Steel Detailer   | 4  | 0          | 1          | 4          | 7          | 0          | 16           |  |           |           |           |           |           |            |                   |
| Well Testing Services<br>Supervisor (Note 7)                   |  |            |            |            |            |            |              |  |           |           |           |           |           |            |                   |
| <b>Total - Occupations</b>                                     | <b>14</b>  | <b>5</b>   | <b>8</b>   | <b>9</b>   | <b>25</b>  | <b>11</b>  | <b>72</b>    |  |           |           |           |           |           |            |                   |

Source: Alberta Advanced Education

**Note 1:** There is one provincial apprenticeship committee for each designated trade and one occupational committee for each designated occupation. For the exception to this, see Note 7 below.

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

**Note 3:** The number of local apprenticeship committees (LACs) varies by trade. The number of LACs for each trade as of December 31, 2016 is indicated in the 'Number of LACs' column. Some trades do not have any LACs. The number of LAC meetings reflected in the table for each trade adds together the meetings of all the LACs in the province for that trade.

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

**Note 4:** Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

**Note 5:** Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

**Note 6:** 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: 2010 - 1; 2011 - 2; 2012 - 7; 2013 - 3; 2014 - 8; 2015 - 3; 2016 - 10.

**Note 7:** As of 2010, the Petroleum Competency Program Steering Committee has served as the industry committee for the following designated occupations: oil and gas transportation services, slickline services, snubbing services and well testing services supervisor.



Table 10

## Number of Participants in the Registered Apprenticeship Program (RAP) by Trade, 2016

| TRADE AND BRANCH                          | High School | Full Time | Certified <i>(Note 1)</i> |
|---|-------------|-----------|---------------------------|
| Agricultural Equipment Technician         | 17          | 36        | 54                        |
| Appliance Service Technician              | 0           | 1         | 5                         |
| Appliance Service Technician              | 0           | 0         | 5                         |
| Commercial Appliance Service Technician   | 0           | 1         | 0                         |
| Auto Body Technician                      | 22          | 66        | 101                       |
| Auto Body Technician                      | 20          | 62        | 21                        |
| Prepper                                   | 0           | 0         | 0                         |
| Refinisher                                | 2           | 2         | 45                        |
| Repairer                                  | 0           | 2         | 35                        |
| Automotive Service Technician             | 100         | 308       | 494                       |
| Baker                                     | 2           | 9         | 13                        |
| Boilermaker                               | 1           | 1         | 0                         |
| Bricklayer                                | 5           | 5         | 14                        |
| Cabinetmaker                              | 9           | 17        | 52                        |
| Carpenter                                 | 82          | 216       | 288                       |
| Communication Technician                  | 1           | 3         | 1                         |
| Concrete Finisher                         | 4           | 3         | 5                         |
| Cook                                      | 49          | 72        | 87                        |
| Crane and Hoisting Equipment Operator     | 3           | 9         | 24                        |
| Boom Truck                                | 1           | 5         | 9                         |
| Mobile Crane                              | 2           | 4         | 14                        |
| Tower Crane                               | 0           | 0         | 1                         |
| Wellhead Boom Truck                       | 0           | 0         | 0                         |
| Electric Motor Systems Technician         | 0           | 3         | 0                         |
| Electrician                               | 79          | 419       | 564                       |
| Elevator Constructor                      | 0           | 0         | 0                         |
| Floorcovering Installer                   | 6           | 4         | 3                         |
| Gasfitter                                 | 1           | 8         | 6                         |
| Gasfitter A                               | 0           | 8         | 6                         |
| Gasfitter B                               | 1           | 0         | 0                         |
| Glazier                                   | 9           | 5         | 9                         |
| Glazier                                   | 9           | 5         | 9                         |
| Auto Glass Technician <i>(Note 2)</i>     | 0           | 0         | 0                         |
| Hairstylist                               | 51          | 156       | 585                       |
| Heavy Equipment Technician                | 160         | 573       | 564                       |
| Heavy Equipment Technician                | 135         | 530       | 530                       |
| Heavy Duty Equipment Mechanic (Off Road)  | 11          | 18        | 5                         |
| Transport Trailer Mechanic                | 3           | 4         | 5                         |
| Truck and Transport Mechanic              | 11          | 21        | 24                        |
| Instrument Technician                     | 11          | 69        | 108                       |
| Insulator                                 | 3           | 5         | 2                         |
| Ironworker                                | 8           | 13        | 2                         |
| Ironworker                                | 4           | 7         | 1                         |
| Metal Building Systems Erector            | 0           | 0         | 1                         |
| Reinforcing                               | 1           | 1         | 0                         |
| Structural/Ornamental                     | 3           | 5         | 0                         |
| Landscape Horticulturist <i>(Note 3)</i>  | 7           | 7         | 8                         |
| Lather-Interior Systems Mechanic          | 5           | 16        | 1                         |
| Locksmith                                 | 1           | 0         | 4                         |
| Machinist                                 | 12          | 32        | 56                        |
| Metal Fabricator (Fitter) <i>(Note 4)</i> | 1           | 2         | 8                         |
| Millwright                                | 27          | 85        | 135                       |
| Motorcycle Mechanic                       | 9           | 13        | 31                        |
| Natural Gas Compression Technician        | 0           | 1         | 0                         |

(continued)

Table 10 (continued)

## Number of Participants in the Registered Apprenticeship Program (RAP) by Trade, 2016

| TRADE AND BRANCH                            | High School | Full Time    | Certified (Note 1) |
|---|-------------|--------------|--------------------|
| Outdoor Power Equipment Technician          | 3           | 11           | 6                  |
| Power                                       | 0           | 4            | 2                  |
| Recreational                                | 3           | 7            | 4                  |
| Painter and Decorator                       | 1           | 0            | 6                  |
| Parts Technician                            | 16          | 48           | 78                 |
| Parts Technician                            | 16          | 46           | 78                 |
| Materials Technician                        | 0           | 2            | 0                  |
| Plumber                                     | 33          | 116          | 169                |
| Plumber                                     | 0           | 0            | 1                  |
| Plumber & Gasfitter B                       | 33          | 116          | 168                |
| Powerline Technician                        | 4           | 21           | 22                 |
| Power System Electrician                    | 0           | 0            | 0                  |
| Recreation Vehicle Service Technician       | 3           | 6            | 6                  |
| Refrigeration and Air Conditioning Mechanic | 6           | 18           | 21                 |
| Rig Technician                              | 0           | 0            | 0                  |
| Roofer                                      | 2           | 3            | 4                  |
| Sheet Metal Worker                          | 16          | 35           | 34                 |
| Sprinkler Systems Installer                 | 2           | 4            | 11                 |
| Steamfitter-Pipefitter                      | 9           | 36           | 58                 |
| Tilesetter                                  | 3           | 1            | 3                  |
| Transport Refrigeration Technician          | 0           | 2            | 3                  |
| Water Well Driller                          | 3           | 2            | 5                  |
| Welder                                      | 82          | 349          | 978                |
| Welder                                      | 81          | 349          | 978                |
| Wire Processor                              | 1           | 0            | 0                  |
| <b>TOTAL</b>                                | <b>868</b>  | <b>2,809</b> | <b>4,628</b>       |

Source: Alberta Advanced Education

**High School** = RAP participants currently in high school.

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

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

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

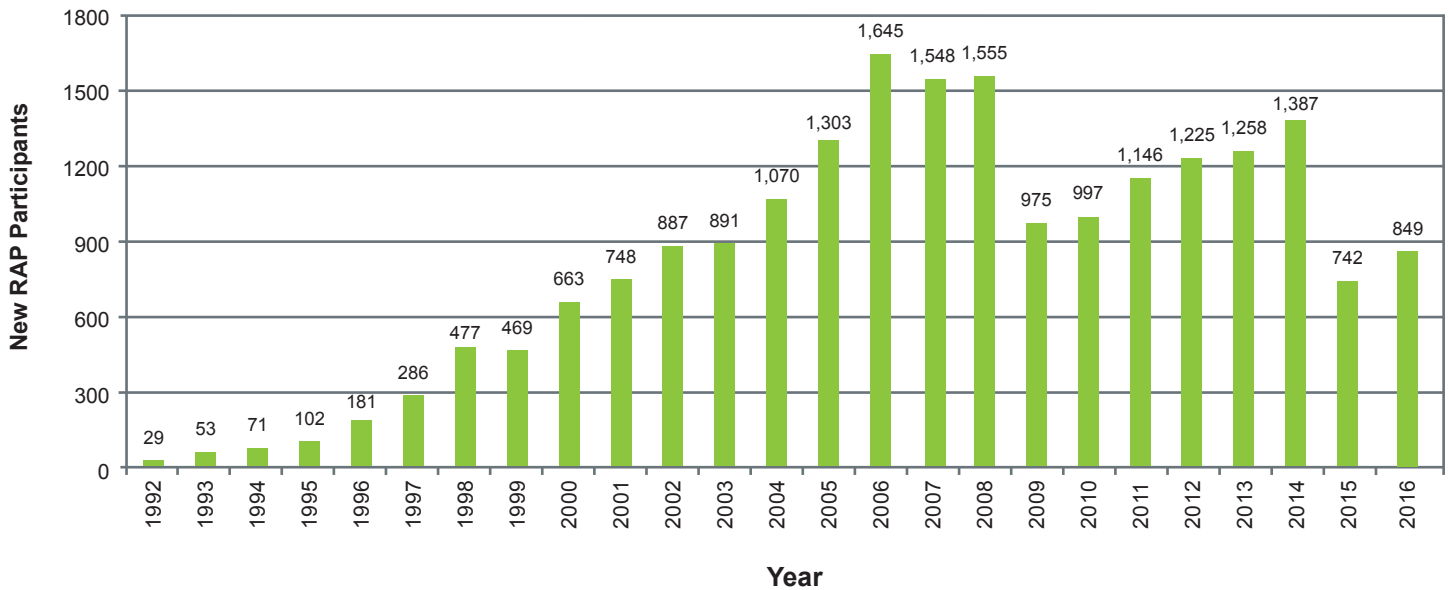
**Note 2:** Effective January 1, 2015, the designation of autoglass technician as a branch of the glazier trade was rescinded. Apprentices registered in the program before that date could continue in the program until December 31, 2016.

**Note 3:** Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

**Note 4:** Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

## Chart 6

### Number of New Registrants in the Registered Apprenticeship Program (RAP) by Year<sup>1</sup>

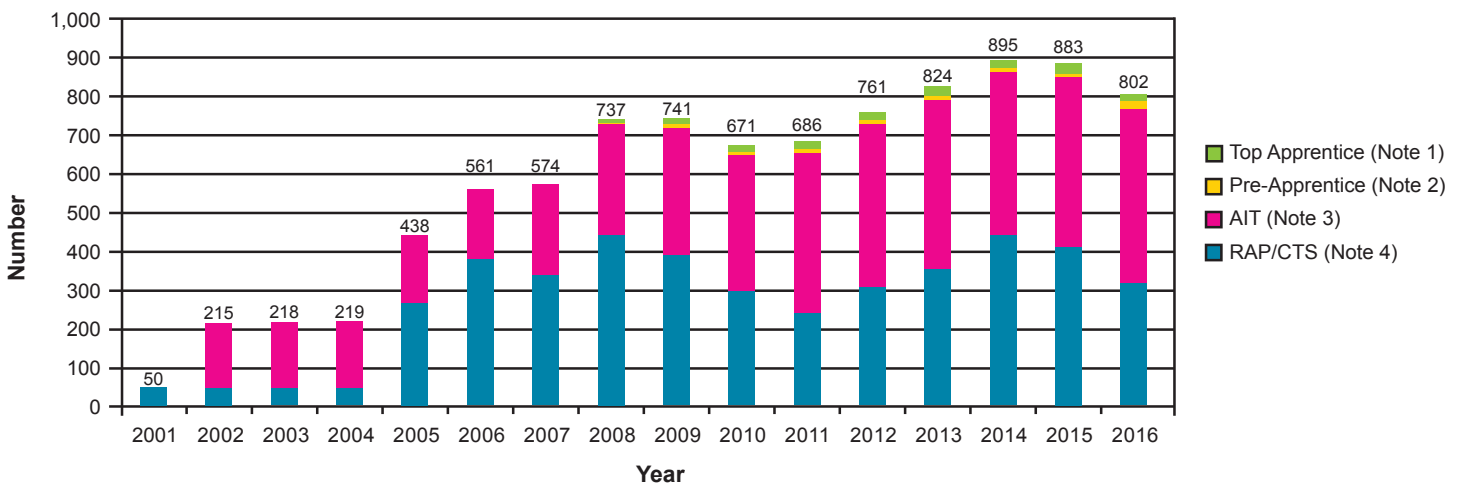


Source: Alberta Advanced Education

<sup>1</sup> This graph represent statistics covering calendar years (January to December).

## Chart 7

### Total Number of Individuals Awarded Scholarships by Year



Source: Alberta Advanced Education

- Note 1:** There are currently 22 Top Apprentice Scholarships of \$1,500 available each year. The first year the scholarships were awarded was 2008. Top Apprentice Scholarships are awarded to apprentices who achieved both a very high academic standing in their technical training and a strong employer recommendation.
- Note 2:** There are currently 11 Pre-Apprentice Scholarships of \$1,000 available each year. The first year the scholarships were awarded was 2008. Pre-Apprenticeship Scholarships are awarded to individuals who have completed pre-trades training and have since become a registered apprentice. Recipients are selected based on their marks and employer recommendations.
- 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 and employer recommendations.
- Note 4:** The Registered Apprenticeship Program/Career and Technology Studies Apprenticeship Pathways (RAP/CTS) Scholarships are \$1,000 each. For the years 2001 to 2004, there were 50 RAP/CTS scholarships available. Since 2005, 500 RAP/CTS Scholarships are available each year. RAP/CTS Scholarships are awarded to individuals who have participated in RAP or in CTS apprenticeship pathways in high school and have since become a registered apprentice. Recipients are selected based on employer recommendations, high school recommendations and marks.

For more information on scholarships, go to: [tradesecrets.alberta.ca](http://tradesecrets.alberta.ca)

Table 11

Number of Apprentices Registered by Trade - Total, Indigenous<sup>1</sup> and Women, 2016<sup>2</sup>

| TRADE AND BRANCH                         | Total Apprentices Registered | Indigenous Apprentices Registered | Women Apprentices Registered |
|--|------------------------------|-----------------------------------|------------------------------|
| Agricultural Equipment Technician        | 164                          | 6                                 | 0                            |
| Appliance Service Technician             | 75                           | 1                                 | 1                            |
| Appliance Service Technician             | 70                           | 1                                 | 1                            |
| Commercial Appliance Service Technician  | 5                            | 0                                 | 0                            |
| Auto Body Technician                     | 665                          | 26                                | 54                           |
| Auto Body Technician                     | 504                          | 20                                | 35                           |
| Prepper                                  | 24                           | 0                                 | 4                            |
| Refinisher                               | 94                           | 5                                 | 15                           |
| Repairer                                 | 43                           | 1                                 | 0                            |
| Automotive Service Technician            | 3,068                        | 131                               | 112                          |
| Baker                                    | 177                          | 8                                 | 139                          |
| Boilermaker                              | 527                          | 48                                | 26                           |
| Bricklayer                               | 170                          | 6                                 | 3                            |
| Cabinetmaker                             | 257                          | 10                                | 34                           |
| Carpenter                                | 3,104                        | 235                               | 191                          |
| Communication Technician                 | 135                          | 2                                 | 5                            |
| Concrete Finisher                        | 57                           | 2                                 | 0                            |
| Cook                                     | 977                          | 54                                | 334                          |
| Crane and Hoisting Equipment Operator    | 2,354                        | 98                                | 47                           |
| Boom Truck                               | 827                          | 39                                | 13                           |
| Mobile Crane                             | 804                          | 37                                | 27                           |
| Tower Crane                              | 53                           | 0                                 | 1                            |
| Wellhead Boom Truck                      | 670                          | 22                                | 6                            |
| Electric Motor Systems Technician        | 35                           | 0                                 | 2                            |
| Electrician                              | 11,714                       | 482                               | 678                          |
| Elevator Constructor                     | 318                          | 4                                 | 5                            |
| Floorcovering Installer                  | 35                           | 0                                 | 0                            |
| Gasfitter                                | 506                          | 17                                | 22                           |
| Gasfitter A                              | 420                          | 14                                | 22                           |
| Gasfitter B                              | 86                           | 3                                 | 0                            |
| Glazier                                  | 287                          | 13                                | 10                           |
| Glazier                                  | 287                          | 13                                | 10                           |
| Auto Glass Technician (Note 2)           | 0                            | 0                                 | 0                            |
| Hairstylist                              | 2,218                        | 122                               | 2,004                        |
| Heavy Equipment Technician               | 4,933                        | 216                               | 122                          |
| Heavy Equipment Technician               | 3,842                        | 170                               | 97                           |
| Heavy Duty Equipment Mechanic (Off Road) | 387                          | 18                                | 9                            |
| Transport Trailer Mechanic               | 117                          | 4                                 | 4                            |
| Truck and Transport Mechanic             | 587                          | 24                                | 12                           |
| Instrument Technician                    | 1,580                        | 63                                | 68                           |
| Insulator                                | 756                          | 52                                | 115                          |
| Ironworker                               | 1,647                        | 213                               | 104                          |
| Ironworker                               | 358                          | 62                                | 28                           |
| Metal Building Systems Erector           | 77                           | 3                                 | 1                            |
| Reinforcing                              | 270                          | 59                                | 6                            |
| Structural/Ornamental                    | 942                          | 89                                | 69                           |
| Landscape Horticulturist (Note 3)        | 155                          | 4                                 | 57                           |
| Lather-Interior Systems Mechanic         | 111                          | 4                                 | 4                            |
| Locksmith                                | 143                          | 3                                 | 10                           |
| Machinist                                | 529                          | 17                                | 23                           |
| Metal Fabricator (Fitter) (Note 4)       | 99                           | 3                                 | 4                            |
| Millwright                               | 1,814                        | 102                               | 74                           |
| Motorcycle Mechanic                      | 186                          | 12                                | 8                            |
| Natural Gas Compression Technician       | 24                           | 1                                 | 0                            |

(continued)

Table 11 (continued)

Number of Apprentices Registered by Trade - Total, Indigenous<sup>1</sup> and Women, 2016<sup>2</sup>

| TRADE AND BRANCH                            | Total Apprentices Registered | Indigenous Apprentices Registered | Women Apprentices Registered |
|---|------------------------------|-----------------------------------|------------------------------|
| Outdoor Power Equipment Technician          | 63                           | 5                                 | 4                            |
| Power                                       | 20                           | 1                                 | 2                            |
| Recreational                                | 43                           | 4                                 | 2                            |
| Painter and Decorator                       | 120                          | 2                                 | 30                           |
| Parts Technician                            | 953                          | 46                                | 383                          |
| Parts Technician                            | 852                          | 41                                | 340                          |
| Materials Technician                        | 101                          | 5                                 | 43                           |
| Plumber                                     | 3,775                        | 201                               | 154                          |
| Plumber                                     | 13                           | 1                                 | 2                            |
| Plumber & Gasfitter B                       | 3,762                        | 200                               | 152                          |
| Powerline Technician                        | 672                          | 38                                | 9                            |
| Power System Electrician                    | 260                          | 8                                 | 4                            |
| Recreation Vehicle Service Technician       | 151                          | 4                                 | 10                           |
| Refrigeration and Air Conditioning Mechanic | 844                          | 25                                | 18                           |
| Rig Technician                              | 1,147                        | 42                                | 3                            |
| Roofer                                      | 217                          | 18                                | 7                            |
| Sheet Metal Worker                          | 1,428                        | 53                                | 74                           |
| Sprinkler Systems Installer                 | 322                          | 12                                | 8                            |
| Steamfitter-Pipefitter                      | 4,211                        | 231                               | 207                          |
| Tilesetter                                  | 11                           | 0                                 | 1                            |
| Transport Refrigeration Technician          | 25                           | 2                                 | 0                            |
| Water Well Driller                          | 34                           | 3                                 | 0                            |
| Welder                                      | 5,284                        | 305                               | 457                          |
| Welder                                      | 5,248                        | 305                               | 456                          |
| Wire Processor                              | 36                           | 0                                 | 1                            |
| <b>TOTAL - TRADES</b>                       | <b>58,337</b>                | <b>2,950</b>                      | <b>5,625</b>                 |

(Note 1)

Source: Alberta Advanced Education

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

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

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

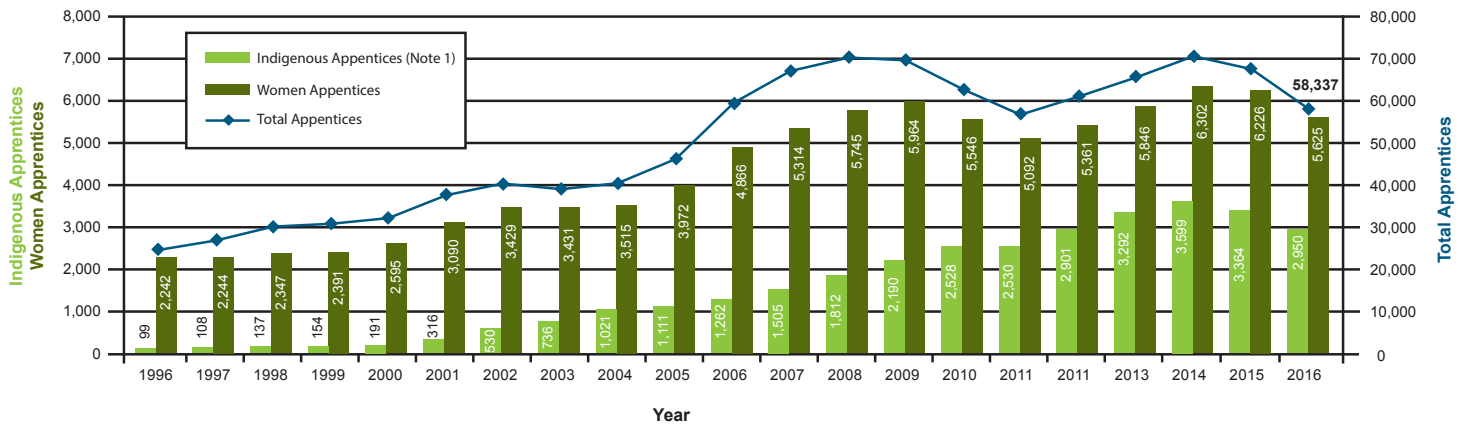
**Note 2:** Effective January 1, 2015, the designation of autoglass technician as a branch of the glazier trade was rescinded. Apprentices registered in the program before that date could continue in the program until December 31, 2016.

**Note 3:** Effective September 1, 2016, the name of the landscape gardener trade was changed to landscape horticulturist.

**Note 4:** Effective September 1, 2016, the name of the structural steel and plate fitter trade was changed to metal fabricator (fitter).

## Chart 8

### Total, Women and Indigenous<sup>1</sup> Apprentices Registered by Year



Source: Alberta Advanced Education

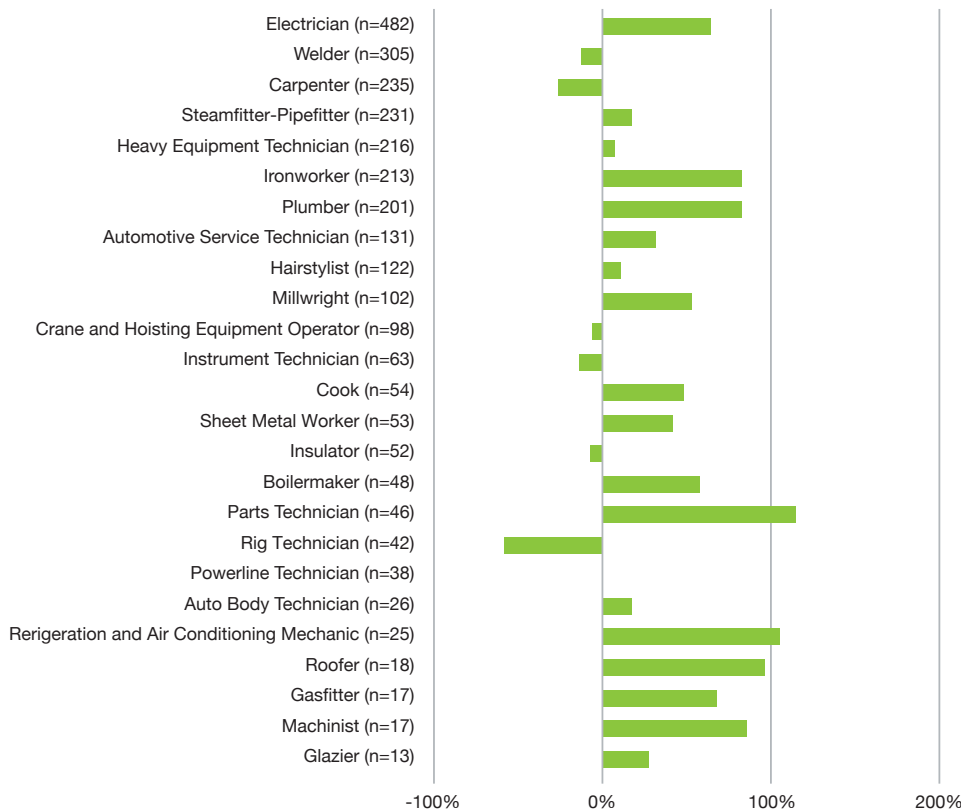
<sup>1</sup> In previous Statistical Profiles, Indigenous was reported as 'Aboriginal'. However, the data continues to include and reflect Status Indian/First Nations, Non-Status Indian/First Nations, Inuit and Metis.

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

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

## Chart 9

### Per Cent Change of Indigenous<sup>1</sup> Apprentices Registered<sup>2</sup> by Trade Between 2011 and 2016



Source: Alberta Advanced Education

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

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

**Notes:**

The 25 of 49 trades represented in the chart are those in which there were the highest number of Indigenous apprentices registered as of December 31, 2016. The list of trades is rank ordered with the highest to lowest number of Indigenous apprentices registered.

The 'n' provided is the number of Indigenous apprentices registered in the given trade as of December 31, 2016.

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

Chart 10

## Total Number of Women Apprentices Registered by Year<sup>1</sup>



Source: Alberta Advanced Education

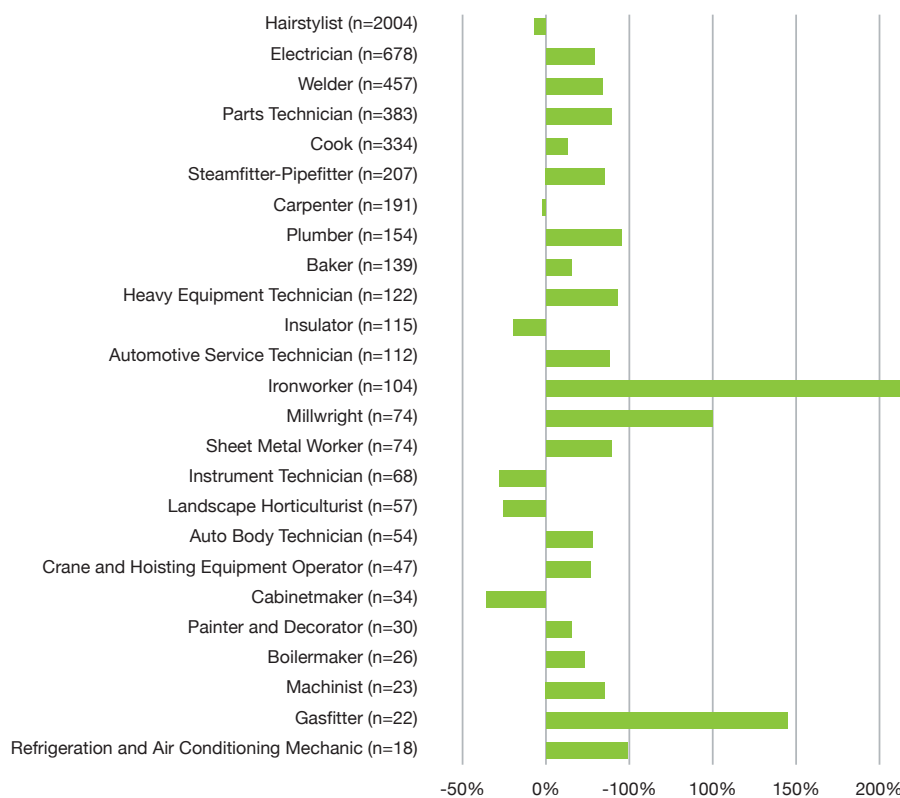
<sup>1</sup> This graph represents statistics covering a series of calendar years (January to December).

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

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

Chart 11

## Per Cent Change of Women Apprentices Registered by Trade Between 2011 and 2016



Source: Alberta Advanced Education

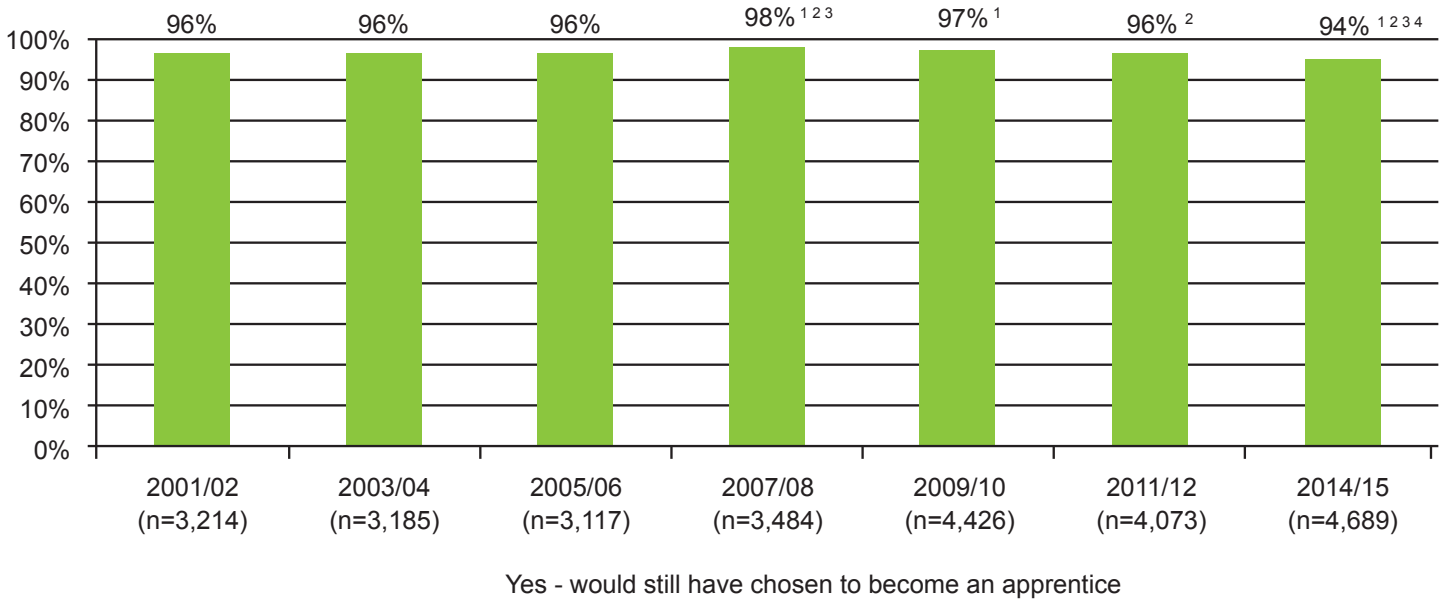
**Notes:**  
The 25 of 49 trades represented in the chart are those in which there were the highest number of women apprentices registered as of December 31, 2016. The list of trades is rank ordered with the highest to lowest number of women apprentices registered.

The 'n' provided is the number of women apprentices registered in the given trade as of December 31, 2016.

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

## Chart 12

### Apprentice Graduate Satisfaction with Apprenticeship System



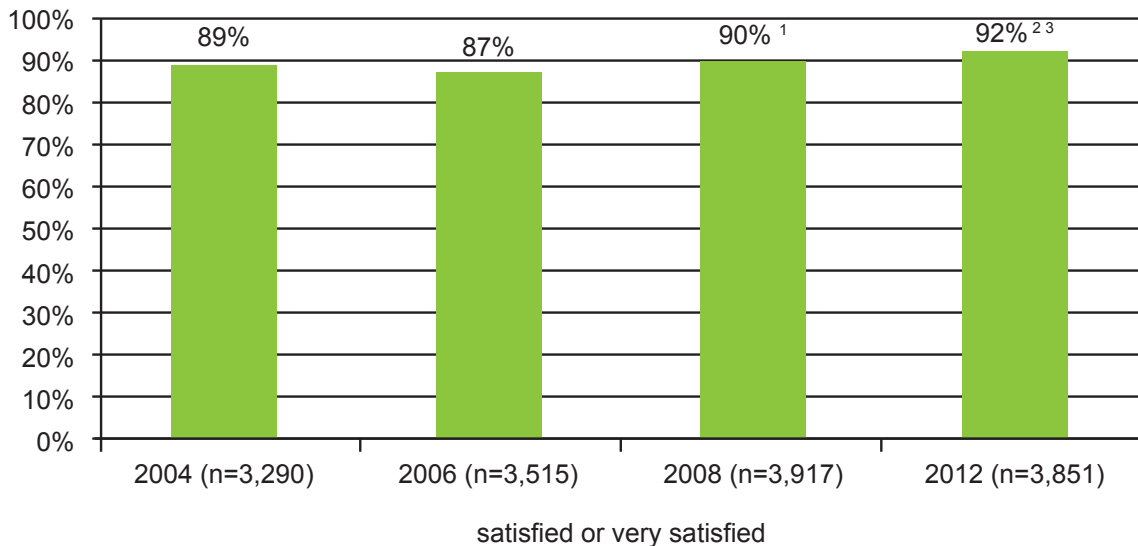
Source: Alberta Advanced Education, surveys of graduates of apprenticeship and industry training

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

- <sup>1</sup> Indicates a significant change in response at a .05 level of significance compared to the previous survey year.
- <sup>2</sup> Indicates a significant change in response at a .05 level of significance compared to two surveys previous.
- <sup>3</sup> Indicates a significant change in response at a .05 level of significance compared to three surveys previous.
- <sup>4</sup> Indicates a significant change in response at a .05 level of significance compared to four 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?

- <sup>1</sup> Indicates a significant change in response at a .05 level of confidence compared to the previous survey year.
- <sup>2</sup> Indicates a significant change in response at a .05 level of confidence compared to two surveys previous.
- <sup>3</sup> Indicates a significant change in response at a .05 level of confidence compared to three surveys previous.





