

# alberta**workforcetraining**systems

## An Overview



**Alberta**

ADVANCED EDUCATION AND  
CAREER DEVELOPMENT



Trade	Description	Length of Program
<b>Agricultural Mechanic (R)</b>	Services, repairs and sets up agricultural machines	2 years including two 10-week in-class sessions
<b>Appliance Serviceman (C)(R)</b>	Repairs and services household appliances	3 years including two 8-week & one 6-week in-class sessions
<b>Auto Body Technician (C)(R)</b>	Repairs and refinishes automobile bodies	3 years including three 8-week in-class sessions
<b>Automotive Service Technician (C)(R)</b>	Services and repairs automobiles	4 years including four 8-week in-class sessions
<b>Baker (R)</b>	Makes bread, pastries, cookies and cakes	3 years including three 8-week in-class sessions
<b>Boilermaker (C)(R)</b>	Builds, tests and repairs air-tight and liquid-tight containers	3 years including four 6-week in-class sessions
<b>Bricklayer (R)</b>	Lays brick, hollow tile and concrete block for buildings or other structures	3 years including one 12-week & two 6-week in-class sessions
<b>Cabinetmaker (R)</b>	Builds custom or production-type fixtures and furniture of wood and wood substitutes	4 years including four 8-week in-class sessions
<b>Carpenter (R)</b>	Works with wood and wood substitutes in the construction of buildings and other structures	4 years including four 8-week in-class sessions
<b>Concrete Finisher (R)</b>	Places, finishes, cuts and repairs concrete	3 years including two 4-week in-class sessions
<b>Communication Electrician</b>	Installs, services and repairs telephone equipment and related communication systems	
<i>Construction Craft</i>	Installs, tests and maintains cabling on poles, in manholes, cable vaults and pedestals	4 years including one 10-week & three 8-week in-class sessions
<i>Network Craft</i>	Installs, maintains and repairs networks, communication equipment and other specialized telecommunication equipment	4 years including three 8-week & one 10-week in-class sessions
<b>Cook (R)</b>	Prepares food and meals in hotels, restaurants and institutions	3 years including three 8-week in-class sessions
<b>Crane &amp; Hoisting Equipment Operator (C)</b>	Operates tower cranes, mobile cranes and boom trucks to lift and swing material	
<i>Boom Truck Operator</i>	Operates and services hydraulically truck mounted crane to lift and swing materials and loads	1 year including one 3-week in-class session
<i>Mobile Crane Operator (R)</i>	Operates and services any mechanical device or hydraulic structure to lift and swing	3 years including one 3-week & one 5-week in-class sessions
<i>Tower Crane Operator</i>	Operates and services a mechanical device or structure of a travelling, fixed or climbing type used for raising or lowering materials	2 years including one 3-week in-class session
<b>Electrical Rewind Mechanic (R)</b>	Repairs and rebuilds electric motors, generators, transformers, controls and other electrical equipment	4 years including four 8-week in-class sessions
<b>Electrician (C)(R)</b>	Installs, alters, repairs and maintains electrical systems in buildings to supply heat, light, power, controls and signals or fire alarms	4 years including three 8-week & one 12-week in-class sessions
<b>Electronic Technician (C)(R)</b>	Services and repairs radio and television-receiving equipment	4 years including two 12-week & two 6-week in-class sessions
<b>Elevator Constructor (C)</b>	Installs, repairs and maintains elevators, escalators and moving walkways, etc.	4 years including two modular training sessions
<b>Floorcovering Installer (R)</b>	Installs many types of resilient and carpet floor coverings in buildings	2 years including one 7-week & one 6-week in-class sessions
<b>Gasfitter - First Class (C)</b>	Installs piping, appliances, equipment and controls for the use of natural gas or propane gas as a fuel	3 years including two 8-week in-class sessions
<b>Glassworker (R)</b>	Cuts and installs glass for windows, showcases and curtain-wall building construction	4 years including four 6-week in-class sessions
<b>Hairstylist (C)(R)</b>	Cuts, trims, waves and colours hair; facial and scalp massage; trims beards, mustaches, etc.	2 years including two 10-week in-class sessions
<b>Heavy Equipment Technician (C)(R)</b>	Services and repairs construction and other heavy industrial mobile and stationary equipment	4 years including four 8-week in-class sessions
<b>Instrument Mechanic (R)</b>	Maintains, services, repairs and installs measuring and control instruments used in process industries	4 years including two 8-week & two 10-week in-class sessions
<b>Insulator (R)</b>	Installs insulation materials in commercial and industrial structures	4 years including two 6-week & one 8-week in-class sessions
<b>Ironworker (C)(R)</b>	Builds, erects, constructs and joins structural steel on buildings, bridges and towers	3 years including three 8-week in-class sessions
<b>Metal Building Systems Erector (C)</b>	Erects pre-engineered one-storey buildings	2 years including one 10-week in-class session



Trade	Description	Length of Program
<b>Landscape Gardener</b>	Grows, installs and maintains trees, plants and grasses in all environments	4 years including four 8-week in-class sessions
<b>Lather-Interior Systems Mechanic (R)</b>	Installs metal, plaster lath and interior finishes in the construction of buildings	3 years including two 8-week & one 6-week in-class sessions
<b>Locksmith</b>	Installs, replaces, rebuilds, rearranges, repairs or readjusts locking devices or safes; makes keys; and circumvents locking devices	4 years including four 8-week in-class sessions
<b>Machinist (R)</b>	Works with metals, operates metal-cutting and shaping machinery	4 years including four 8-week in-class sessions
<b>Millwright (R)</b>	Installs and maintains machinery in factories and other production plants	4 years including four 8-week in-class sessions
<b>Motorcycle Mechanic (C)(R)</b>	Assembles, services and repairs two-wheeled single-tracked motor vehicles and three-wheeled two-tracked motor vehicles (sidecars)	4 years including two 8-week & two 6-week in-class sessions
<b>Painter &amp; Decorator (R)</b>	Applies paint, varnish and wallpaper to interior and exterior building surfaces, and to other fittings and furnishings	3 years including three 8-week in-class sessions
<b>Partsman (R)</b>	Stores and dispenses automotive, heavy duty or farm machinery parts	3 years including one 8-week & two 6-week in-class sessions
<b>Plumber (C)(R)</b>	Installs piping, fixtures, appliances, equipment and controls for water and sanitation purposes	4 years including four 8-week in-class sessions
<b>Power Lineman (R)</b>	Constructs, maintains or operates electrical transmission or distribution systems	4 years including three 7-week in-class sessions
<b>Power System Electrician</b>	Constructs or maintains electrical utility power system and power station equipment, or metering, protection and control apparatus	4 years including two 8-week & two 9-week in-class sessions
<b>Printing &amp; Graphic Arts Craftsman</b>	Prepares, produces and finishes printed material	
<i>Pre-Press</i>	Design and layout, document composition, image reproduction, assembly, proofing and plating, using traditional pre-press tools and computer applications	4 years including four 4-week in-class sessions
<i>Press</i>	Install plates, prepare ink fountains and feeder units, make mechanical adjustments and monitor the presses during production runs	4 years including four 4-week in-class sessions
<i>Bindery</i>	Some tasks include folding, cutting, gluing, stapling and packaging the finished printed materials, including shipping	3 years including two 4-week in-class sessions
<i>Bindery II</i>	Some tasks include folding, cutting, gluing, stapling and packaging the finished printed materials, including shipping	2 years including two 4-week in-class sessions
<b>Recreation Vehicle Mechanic (C)</b>	Repairs mobile motor homes and recreation vehicles	3 years including two 8-week in-class sessions
<b>Refrigeration &amp; Air Conditioning Mechanic (C)(R)</b>	Installs and services refrigerating and air conditioning systems	4 years including four 8-week in-class sessions
<b>Roofer (R)</b>	Installs and maintains built-up roofs, composition roof coverings, shakes, shingles and plastic membranes	3 years including three 6-week in-class sessions
<b>Sawfiler</b>	Repairs, sets and sharpens band saws, chain saws, hand saws, circular saws and other types of saw blades	4 years including four 4-week in-class sessions
<i>Circular Sawfiler</i>	Repairs, sets and sharpens chain saws, hand saws, circular saws and other types of saw blades	3 years including three 4-week in-class sessions
<b>Sheet Metal Worker (C)(R)</b>	Designs, fabricates, installs and repairs ducts and fittings for heating, ventilating, air conditioning, exhaust and dust collecting systems	4 years including four 10-week in-class sessions
<b>Sprinkler Systems Installer (R)</b>	Installs and maintains fixed fire extinguishing systems	4 years including three 6-week in-class sessions
<b>Steamfitter - Pipefitter (C)(R)</b>	Installs piping, equipment and controls for hot water, steam, process and chemical piping in industrial and commercial establishments	4 years including four 8-week in-class sessions
<b>Structural Steel &amp; Platefitter (R)</b>	Works in the shop fabrication, preparation, layout, assembly or repair of structural and miscellaneous components or vessels	3 years including three 8-week in-class sessions
<b>Tilesetter</b>	Works with ceramic tile, terrazzo and marble	3 years including three 6-week in-class sessions
<b>Tool &amp; Diemaker (R)</b>	Manufactures and repairs jigs, fixtures, gauges, dies, molds, press tools and various types of small mechanical devices	Under development
<b>Transport Refrigeration Mechanic</b>	Installs, repairs and maintains equipment in mobile units used to haul perishable loads	3 years including three 8-week in-class sessions
<b>Water Well Driller</b>	Drills, installs and services water wells, and installs and services water well pumping systems	2 years including two 6-week in-class sessions
<b>Welder (C)(R)</b>	Joins metal by fusion using oxyacetylene flame, electric arc or other welding processes	3 years including three 8-week in-class sessions



## History of Apprenticeship in Alberta

The Alberta government has been assisting employers in the development and administration of skilled trades training since the first Apprenticeship Act was passed more than 50 years ago.

Since 1944, Alberta has certified over 240,000 journeymen through its trades training and certification programs. Strict standards of excellence in apprenticeship training are developed through cooperation between government and industry so that excellence in workmanship is established and maintained. A unique feature of the Alberta system is that over 130 advisory groups are involved in guiding the curricula.

Today, because of this strong industry support, over 22,000 apprentices are enrolled in Alberta's 50 apprenticeship trades. Alberta's participation and retention rate is the highest in Canada accounting for 25% of all apprentices trained in the country. Significantly, Albertans make up only 10 % of the Canadian population.

## The Alberta Apprenticeship System

Alberta Advanced Education and Career Development is responsible for the development and delivery of apprenticeship programs. The Apprenticeship and Industry Training Division develops the course outlines, objectives and the examinations used for apprenticeship training. This division also issues certificates to trades people who have successfully completed their practical and classroom training.

Private industry delivers on-the-job training to apprentices who work under the direct supervision of experienced trades people. In most trades, approximately 80% of trade skills are learned on the job.

Each year of an apprenticeship requires apprentices to spend several weeks in a classroom learning theoretical aspects of the trade at a local college or technical institute.

## International Training Agreements

Alberta is willing to enter into contracts with clients from around the world who wish to participate in the Alberta apprenticeship system and its related programs and services. The Government of Alberta is prepared to extend the delivery of apprenticeship training and certification to apprentice trainees from other countries.

Contracts are negotiated on an individual basis. Successful graduates of the apprenticeship program receive an internationally recognized Alberta Journeyman Certificate.

Alberta is prepared to assist the governments of interested countries or companies located outside of Canada to develop and align their academic curricula so that their students can qualify and fully participate in Alberta's apprenticeship program.



*Alberta Apprenticeship  
Excellence through  
Training and Experience*

**Alberta**

ADVANCED EDUCATION AND  
CAREER DEVELOPMENT



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