

# Alberta Apprenticeship Education Programs



## ● Agricultural Equipment Technician

Maintains, repairs and overhauls agricultural equipment  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

## ● Appliance Service Technician

Installs, services and repairs appliances  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

» **Commercial Appliance Service Technician**  
Installs, services and repairs commercial appliances  
*Certificate*  
➤ 3 periods  
➤ two 8-week in-class sessions

## ● Auto Body Technician

Repairs and replaces damaged motor vehicle structures and body parts, including interior and exterior finishes  
*Diploma*  
➤ 4 periods  
➤ two 6-week and two 7-week in-class sessions

» **Auto Body Prepper**  
Restores anti-corrosion treatments, and conducts substrate identification, surface preparation, undercoat product mixing and application  
*Certificate of Achievement*  
➤ 2 periods  
➤ one 6-week in-class session

» **Auto Body Refinisher**  
Performs damage appraisals, surface preparation, minor damage repairs, masking, colour matching, priming and top coating  
*Certificate*  
➤ 2 periods  
➤ two 6-week in-class sessions

» **Auto Body Repairer**  
Performs damage appraisals, frame and unibody structural repairs, body sheet-metal work, plastic repairs, component replacement and alignment  
*Certificate*  
➤ 3 periods  
➤ one 6-week and two 7-week in-class sessions

## ● Automotive Service Technician

Diagnoses and repairs motor vehicles, including cars and light trucks  
*Advanced Diploma*  
➤ 4 periods  
➤ four 9-week in-class sessions

## ● Baker

Prepares and bakes breads, cakes, cookies, pastries, pies and other baked goods  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## ● Boilermaker

Builds, erects, repairs, tests and maintains all types of boilers, tanks and pressure vessels  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## ● Bricklayer

Prepares and lays brick and other masonry units to construct and repair structures  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## ● Cabinetmaker

Builds and repairs custom or production-type cabinets and furniture, and architectural millwork  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

## ● Carpenter

Constructs, erects and repairs buildings and other structures made of wood, wood substitutes, steel and other materials  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

**Communication Technician**  
Installs, maintains, removes and/or repairs wiring networks, communication equipment and specialized wireless equipment  
*Diploma*  
➤ 4 periods

## ● Concrete Finisher

Places and finishes concrete floors, driveways, sidewalks, curbs, bridge decks and other concrete structures  
*Certificate of Achievement*  
➤ 2 periods  
➤ two 4-week in-class sessions

## ● Cook

Prepares food in eating establishments, plans menus, monitors nutritional components, and manages the kitchen and associated food costs  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## Crane and Hoisting Equipment Operator

» **Boom Truck Operator**  
Sets up, services and operates hydraulic booms that are mounted on revolving platforms attached to trucks  
*Certificate of Achievement*  
➤ 1 period  
➤ one 6-week in-class session

» **Mobile Crane Operator**  
Services and operates booms that are mounted on crawlers or wheeled frames; and traveling, fixed or climbing type hoisting equipment with a vertical mast or tower and a jib  
*Certificate*  
➤ 3 periods  
➤ two 6-week in-class sessions

» **Tower Crane Operator**  
Services and operates traveling, fixed, climbing or self-erecting type hoisting equipment with a vertical mast or tower and a jib  
*Certificate of Achievement*  
➤ 2 periods  
➤ one 6-week in-class session

» **Wellhead Boom Truck Operator**  
Sets up and operates hydraulic booms used for wellhead pumping, wireline, perforating, coiled tubing, snubbing, and the rig-up and rig-out of slant service rig operations  
*Certificate of Achievement*  
➤ 1 period  
➤ one 5-day in-class session

## Electric Motor Systems Technician

Tests, rebuilds and repairs electric motors, generators, transformers, controllers and related electrical and mechanical equipment  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

## ● Electrician

Installs, alters, repairs and maintains electrical systems for all types of buildings, structures and premises  
*Advanced Diploma*  
➤ 4 periods  
➤ two 8-week and two 10-week in-class sessions

## Elevator Constructor

Installs, modifies, services and repairs electric and hydraulic elevators, personnel and man-hoists, moving walkways, stage lifts, escalators and related equipment  
*Certificate of Achievement*  
➤ 4 periods

## ● Floorcovering Installer

Installs many types of floor coverings in buildings  
*Certificate*  
➤ 2 periods  
➤ two 7-week in-class sessions

## Gasfitter

» **Gasfitter - Class A**  
Sizes, installs, tests, adjusts and services natural gas and propane equipment ranging from residential furnaces to industrial boilers  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

» **Gasfitter - Class B**  
Sizes, installs, tests, adjusts and services natural gas and propane equipment ranging from residential furnaces to industrial boilers not exceeding 400,000 British Thermal Units (BTUs)  
*Certificate*  
➤ 2 periods  
➤ two 8-week in-class sessions

## ● Glazier

Cuts and installs glass and aluminum systems for commercial and residential applications  
*Diploma*  
➤ 4 periods  
➤ four 6-week in-class sessions

## ● Hairstylist

Cuts and styles hair to suit the client's face and lifestyle  
*Certificate*  
➤ 2 periods  
➤ two 10-week in-class sessions

» **Barber**  
Cuts and styles hair as well as shaves, trims and shapes beards and mustaches  
*Certificate of Achievement*  
➤ 1 period  
➤ one 10-week in-class session

## Heavy Equipment Technician

Performs all the tasks described below under Heavy Duty Equipment Mechanic (Off-Road), Transport Trailer Mechanic and Truck and Transport Mechanic  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

» **Heavy Duty Equipment Mechanic (Off-Road)**  
Maintains, repairs and overhauls large off-road and industrial equipment such as bulldozers and graders  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

» **Transport Trailer Mechanic**  
Maintains, repairs and overhauls commercial transport trailers  
*Certificate of Achievement*  
➤ 2 periods  
➤ one 8-week in-class session

» **Truck and Transport Mechanic**  
Maintains, repairs and overhauls on-highway vehicles such as semi-trucks and buses  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## ● Industrial Mechanic (Millwright)

Installs, maintains, repairs and troubleshoots stationary industrial machinery and mechanical equipment  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

## ● Instrumentation and Control Technician

Installs, maintains and repairs the measuring and control instruments used in industrial and commercial processing  
*Advanced Diploma*  
➤ 4 periods  
➤ two 8-week and two 10-week in-class sessions

## ● Insulator (Heat and Frost)

Applies, removes and repairs thermal and acoustical insulation on all types of industrial equipment  
*Diploma*  
➤ 4 periods  
➤ four 6-week in-class sessions

## Ironworker

» **Metal Building Systems Erector**  
Fabricates, constructs and joins scaffolding, erects pre-engineered buildings, and performs reconstructive work on existing structures  
*Certificate*  
➤ 2 periods  
➤ two 6-week in-class sessions

» **Ironworker (Reinforcing)**  
Places and ties reinforcing material, joins scaffolding, and performs post tensioning  
*Certificate*  
➤ 2 periods  
➤ two 6-week in-class sessions

» **Ironworker (Structural/Ornamental)**  
Fabricates, constructs and joins scaffolding, structural steel buildings, bridges, ornamental ironwork and pre-cast structures  
*Certificate*  
➤ 3 periods  
➤ three 6-week in-class sessions

## ● Landscape Horticulturist

Carries out landscaping operations including construction, maintenance and selecting and installing plants, trees, grass and irrigation systems  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

## ● Lather (Interior Systems Mechanic)

Installs a wide variety of wall and ceiling systems and exterior finishes, bringing various buildings to a completed state  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## Locksmith

Installs, adjusts and repairs locks, makes keys, and changes lock combinations; works on lock sets and door hardware  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## ● Machinist

Sets up and operates precision metal cutting and grinding machines to make and repair products made from metals, plastics, rubber textiles, fiberglass and other materials  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

## ● Metal Fabricator (Fitter)

Lays out, prepares and assembles structural steel, metal vessels, containers and miscellaneous components  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## ● Motorcycle Mechanic

Assembles, maintains, repairs and restores motorcycles and other lightweight all-terrain vehicles with astride seating and handlebar controls  
*Diploma*  
➤ 4 periods  
➤ two 8-week and two 6-week in-class sessions

## Natural Gas Compression Technician

Installs, commissions, maintains and repairs equipment used to gather, store and transmit natural gas  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

## Outdoor Power Equipment Technician

» **Power Equipment**  
Repairs and maintains aerators, air compressors, chippers, compaction equipment, generators, lawn tractors, mowers, chain saws, seeders, sprayers, snow removal equipment, golf carts and utility vehicles  
*Certificate*  
➤ 3 periods  
➤ one 6-week and two 8-week in-class sessions

» **Recreational Equipment**  
Repairs and maintains recreational equipment such as boats, trailers, snow mobiles and off-road multi-wheeled vehicles other than motorcycles  
*Certificate*  
➤ 3 periods  
➤ one 6-week and two 8-week in-class sessions

## ● Painter and Decorator

Applies paint, wall coverings and other finishes to interior and exterior surfaces of buildings and other structures  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## Parts Technician

» **Materials Technician**  
Manages and dispenses parts and goods in bulk, wholesale and warehousing operations  
*Certificate*  
➤ 3 periods  
➤ three 6-week in-class sessions

» **Parts Technician**  
Manages and dispenses parts and goods in wholesale and retail businesses  
*Certificate*  
➤ 3 periods  
➤ two 6-week and one 8-week in-class sessions

## ● Plumber

Plans, installs and services plumbing systems, fixtures, piping equipment and controls. Training also includes Gasfitter - Class B certification  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

## ● Powerline Technician

Constructs, maintains or operates electrical distribution systems  
*Diploma*  
➤ 4 periods  
➤ three 7-week in-class sessions

## Power System Electrician

Installs, maintains and repairs electrical generation systems  
*Advanced Diploma*  
➤ 4 periods  
➤ two 7-week and two 8-week in-class sessions

## ● Recreation Vehicle Service Technician

Installs, repairs and maintains interior and exterior components on motor homes, trailers and campers  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## ● Refrigeration and Air Conditioning Mechanic

Installs, maintains, repairs and overhauls refrigeration and air conditioning systems and their component parts  
*Advanced Diploma*  
➤ 4 periods  
➤ four 8-week in-class sessions

## ● Roofer

Prepares and applies protective coverings to flat and sloped roof surfaces  
*Certificate*  
➤ 4 periods  
➤ three 6-week in-class sessions

## ● Sheet Metal Worker

Designs, fabricates, assembles, installs and repairs sheet metal products required in a wide variety of industries and settings. Training also includes Gasfitter - Class B certification  
*Advanced Diploma*  
➤ 4 periods  
➤ four 10-week in-class sessions

## ● Sprinkler Systems Installer

Fabricates, installs, tests, maintains, inspects and repairs sprinkler systems  
*Diploma*  
➤ 4 periods  
➤ three 8-week in-class sessions

## ● Steamfitter-Pipefitter

Lays out, assembles, fabricates, maintains and repairs piping systems which carry water, steam, chemicals or fuel used in heating, cooling, lubricating and other processes  
*Advanced Diploma*  
➤ 4 periods  
➤ Four 8-week in-class sessions

## Transport Refrigeration Technician

Installs and repairs heating and cooling equipment in mobile units used to haul perishable cargo  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

## Water Well Driller

Sets up and operates drilling rigs and develops, maintains and decommissions water wells  
*Certificate*  
➤ 2 periods  
➤ two 6-week in-class sessions

» **Earth Loop Technician**  
Sets up and operates mobile drilling rigs or trenching equipment used to construct residential and commercial earth loops for heating and cooling  
*Certificate*  
➤ 2 periods  
➤ two 6-week in-class sessions

## ● Welder

Applies heat to metal pieces to melt and/or fuse them together using all welding processes and fillers  
*Diploma*  
➤ 3 periods  
➤ three 8-week in-class sessions

» **Wire Process Operator**  
Applies heat to metal and/or fuse metal pieces together using specific wire feed welding processes  
*Certificate of Achievement*  
➤ 2 periods  
➤ one 8-week in-class session



## Apprenticeship Credentials

Advanced Diplomas, Diplomas, and Certificates are academic credentials recognizing successful completion of a post-secondary program of study.

- » Specialized branch of an apprenticeship program.
- Graduates are eligible to write the Red Seal exam.

Graduates of apprenticeship education programs in Alberta-designated trades also receive Alberta journey person certification.

Explore full program profiles at  
[tradesecrets.alberta.ca/trades](https://tradesecrets.alberta.ca/trades).



Alberta



Apprenticeship  
and Industry  
Training