

Electrician, Apprenticeship

Electricians install, alter, repair and maintain electrical systems that are designed to provide heat, light, power, control, signals or fire alarms for all types of buildings, structures and premises. Experienced electricians may advance to supervisory, estimator, inspector positions, or start their own contracting businesses. Alberta certified journeyman electricians who have the supervisory or management skills required by the industry may apply for an Achievement in Business Competencies Blue Seal by contacting Alberta Apprenticeship and Industry Training.

The Alberta Apprenticeship and Industry Training website <http://tradesecrets.alberta.ca/> provides information on the process in becoming an apprentice, entrance requirements, training facilities and course dates provided in Alberta institutes.

What you can be with your Electrician Apprenticeship training:

Electrician Contractor #7212	Alternate Energy Technologist #7441	Solar Installer #7441	Communication Technician #7246
Construction Estimator #2234	Home Inspector #2264	Industrial Construction Crew Supervisor #7217	Sales Representative (wholesale) #6411
Purchasing Agent #1225	Technical Sales Representative #6221	Security Alarm Installer #2242	College Instructor #4131
Powerline Technician #7244	Power System Electrician #7243	Project Management Professional #0711	Lighting Technician #5226.3

With additional education you could be:

Safety Codes Officer (Electrical Safety Inspector) #2263	Career and Technologies Studies Teacher #4141	Occupational Health and Safety Advisor #2263	Home Inspector #2264
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This career/job listing is only a sample of the possible career options; these are certainly not the only career/job options accessible with this degree/diploma. Some of the careers listed require further education.

For career information, enter the four digit number listed below in the Alberta Learning Information Services Website (www.alis.alberta.ca) or the National Occupational Classification Website (<http://www5.hrsdc.gc.ca/NOC/>).

RDC Career Services can help you explore your interests, identify your goals, discuss your career options and job search strategies and discover how to make the most of your education. Email or give us a call to connect with a career counsellor.

RDC Department Information: Electrician Apprenticeship rdc.ab.ca/programs/trades

Major skills obtained from Electrician Apprenticeship training:

- **Reading** – Ability to read blueprints, specifications and sequence of operations when wiring controls, the ability to read and interpret the Canadian Electrical Code
- **Document Use** – Interpret safety documentation and record keeping, view meters and digital readouts
- **Numeracy** – Calculate the average amount of power being used in a building. Make calculations using angles, vectors and trigonometric constants. Use formulae, such as Ohm's law, to design or modify electrical installations.
- **Writing** – Write and record safety reports, write purchase orders for material and required change orders. Write detailed descriptions of installations and repair procedures.
- **Oral Communication** – Negotiate with trades and suppliers, interact with other electricians and tradespeople to coordinate job scheduling and address safety concerns.
- **Working with Others** – Work frequently in pairs, work with other trades and suppliers, work as a team to promote safety; participate in discussions about work processes or product improvement.
- **Thinking** – refer to blueprints to obtain project information and analyze for errors, make decisions to use material and labour efficiently, make decisions for proper wiring techniques. Decide on how to route power, taking into account potential obstacles, customer specifications and code restrictions.
- **Computer Use** – Use computers to electronically access blueprints and project documentation using laptops, tablets and smart phones. Use software to control electrical equipment to aid in trouble- shooting equipment failure.
- **Continuous Learning** – Keep up-to-date with codes, regulations, standards, materials, technology advancements and emerging skills.

Professional Associations and Sites of Interest:

Alberta Apprenticeship and Industry training- tradesecrets.alberta.ca

Alberta Construction Industry "Trade Up!" www.tradeupalberta.com

Canadian Home Builders' Association-Alberta www.chbaalberta.ca

Alberta Construction Association albertaconstruction.net

BuildForce Canada www.buildforce.ca

Electrical Contractors Association of Alberta <http://www.ecaa.ab.ca/>

Alberta Electric League <http://albertaelectricalleague.com/>

Red Deer Construction Association - www.reddeerconstructionassociation.com

Red Deer College – www.rdc.ab.ca/employment

City of Red Deer – www.reddeer.ca

Provincial Government of Alberta – www.jobs.alberta.ca

Information adapted from www.alis.gov.ab.ca and www.tradesecrets.alberta.ca