



Province of Alberta

APPRENTICESHIP AND INDUSTRY TRAINING ACT

ELECTRICIAN TRADE REGULATION

Alberta Regulation 274/2000

With amendments up to and including Alberta Regulation 165/2017

Office Consolidation

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(Consolidated up to 165/2017)

ALBERTA REGULATION 274/2000
Apprenticeship and Industry Training Act
ELECTRICIAN TRADE REGULATION

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Definitions

- 1** In this Regulation,
- (a) “apprentice” means a person who is an apprentice in the trade;
 - (b) “certified journeyman” means a certified journeyman as defined in the *Apprenticeship Program Regulation*;
 - (c) “electrical systems” means any type of residential, commercial, institutional or industrial building or structural electrical system and without limiting the generality of the foregoing includes
 - (i) fire alarm systems;
 - (ii) signal systems;
 - (iii) control systems;

- (iv) lighting systems;
 - (v) heating and cooling systems;
 - (vi) systems providing power;
 - (vii) data systems;
 - (viii) communication systems;
 - (ix) fibre optic systems;
 - (x) lightning protection systems;
 - (xi) cathodic protection systems;
 - (xii) grounding and bonding systems;
- (d) “technical training” means technical training as defined in the *Apprenticeship Program Regulation*;
- (e) “trade” means the occupation of electrician that is designated as a compulsory certification trade pursuant to the *Apprenticeship and Industry Training Act*.

AR 274/2000 s1;392/2003;270/2006

General Matters Respecting the Trade

Constitution of the trade

2 The undertakings that constitute the trade are the installation, alteration, repair, inspection, verification, commissioning, maintenance and operation of electrical systems.

Tasks, activities and functions

3 When practising or otherwise carrying out work in the trade, the following tasks, activities and functions come within the trade:

- (a) interpreting electrical industry codes, including the Canadian Electrical Code;
- (a.1) erecting, assembling, removing, repairing, replacing and using scaffolding, handling devices, hoists, slings, ropes, rigging equipment and related hardware;
- (b) using hand tools, power tools, testing equipment and specialty tools required by the trade;
- (c) preparation of holes and openings for conductors, cables, raceways, boxes and fittings, fasteners and devices and making panel backboards, box supports and similar items;

- (d) selecting and specifying location and planning layout of electrical systems, components and controls from drawings, specifications, contract documents and related information;
- (e) scheduling labour and material requirements for electrical work;
- (f) testing electrical and electronic equipment and components for continuity, current, voltage and resistance;
- (g) installing, repairing, examining, operating, removing, replacing, altering, maintaining, connecting, testing, energizing and cleaning
 - (i) electric surface or flush mounted receptacles, junction, outlet and device boxes and components;
 - (ii) feeder and distribution busways and busducts;
 - (iii) lighting fixtures and related electrical equipment and components;
 - (iv) dry cell and storage batteries and storage battery systems;
 - (v) consumer's service entrance distribution and metering equipment for connection to overhead and underground supply;
 - (vi) loadcentres, panelboards, fused switch and breaker assemblies, switchboards, switchgear, protective relays, associated circuitry and other devices for power distribution;
 - (vii) power transformers, regulators, capacitors, phase converters and reactors;
 - (viii) generator sets including auto start and transfer systems for standby use and synchronized systems and their controls;
 - (ix) alternating current to direct current conversion devices and power inverters for conversion of direct current to alternating current;
 - (x) electrical appliances, electrical heating, solar heating, ventilation and air-conditioning units, components and controls;

- (xi) oil, gas, coal, electric or wood burner control systems, or any combination of them, and associated wiring;
- (xii) infra-red heating units and other types of infra-red units, controls and components;
- (xiii) fire alarm systems;
- (xiv) security systems, intrusion alarms, access control, card key lock systems or similar equipment;
- (xv) clock systems, including self-correcting or synchronized master-slave equipment and programmable time devices for signals, energy management, lighting control and similar installations;
- (xvi) sound and visual communications systems;
- (xvii) fibre optic systems and components;
- (xviii) electronic devices, discrete devices, manual or automatic devices, control devices, limit switches, pilot or sensing devices, signal devices, circuits and indication lamps, panels or similar equipment and components;
- (xix) relay, static logic or programmable control components and systems;
- (xx) servo-mechanisms and associated circuitry, robotic systems and numerically controlled and computerized numerically controlled systems;
- (xxi) electric motors, generators, controls, other electromechanical devices and auxiliary equipment;
- (xxii) motor starters, motor speed controllers and braking systems, direct current solid state drives, alternating current adjustable frequency drives, magnetic drive assemblies and controls;
- (xxiii) recording instruments and metering instruments;
- (xxiv) grid-connected solar photovoltaic systems, including systems using storage;
- (xxv) grid-isolated solar photovoltaic systems;

- (h) installing, repairing, examining, removing, replacing, altering, maintaining, terminating, splicing, connecting, testing, energizing and cleaning
 - (i) cable assemblies;
 - (ii) underground and overhead wiring installations;
 - (iii) high voltage conductors, cables, terminations and insulation materials;
 - (iv) lighting fixtures and related electrical equipment and components;
 - (v) dry cell and storage batteries and storage battery systems;
 - (vi) electric heat tracing cable assemblies and controls;
- (i) installing, repairing, examining, removing, replacing, altering, maintaining, connecting, testing and cleaning
 - (i) raceway systems, including fittings;
 - (ii) mechanical supports and protection for electrical systems;
 - (iii) grounding and bonding systems;
- (j) terminating and splicing
 - (i) feeder and distribution busways and busducts;
 - (ii) fibre optic systems and components;
- (k) terminating
 - (i) electric surface or flush mounted receptacles, junction, outlet and device boxes and components;
 - (ii) lighting fixtures and related electrical equipment and components;
 - (iii) dry cell and storage batteries and storage battery systems;
 - (iv) consumer's service entrance distribution and metering equipment for connection to overhead and underground supply;
 - (v) loadcentres, panelboards, fused switch and breaker assemblies, switchboards, switchgear, protective

relays, associated circuitry and other devices for power distribution;

- (l) programming and calibrating
 - (i) generator sets, including auto start and transfer systems for standby use and synchronized systems and their controls;
 - (ii) relay, static logic or programmable control components and systems;
 - (iii) servo-mechanisms and associated circuitry, robotic systems and numerically controlled and computerized numerically controlled systems;
- (m) calibrating
 - (i) loadcentres, panelboards, fused switch and breaker assemblies, switchboards, switchgear, protective relays, associated circuitry and other devices for power distribution;
 - (ii) electrical heating, solar heating, ventilation and air-conditioning units, components and controls;
 - (iii) oil, gas, coal, electric or wood burner control systems, or any combination of them, and associated wiring;
 - (iv) electric motors, generators, controls, other electromechanical devices and auxiliary equipment;
 - (v) motor starters, motor speed controllers and braking systems, direct current solid state drives, alternating current adjustable frequency drives, magnetic drive assemblies and controls;
 - (vi) recording instruments;
- (n) lubricating
 - (i) loadcentres, panelboards, fused switch and breaker assemblies, switchboards, switchgear, protective relays, associated circuitry and other devices for power distribution;
 - (ii) generator sets, including auto start and transfer systems for standby use and synchronized systems and their controls;

- (iii) electric motors, generators, controls, other electromechanical devices and auxiliary equipment.
AR 274/2000 s3;392/2003;108/2004;122/2014;
150/2016

Apprenticeship

Term of the apprenticeship program

4(1) Subject to credit for previous training or experience being granted pursuant to an order of the Board the term of an apprenticeship program for the trade is 4 periods of not less than 12 months each.

(2) In the first period of the apprenticeship program an apprentice must acquire not less than 1560 hours of on the job training and successfully complete the technical training that is required or approved by the Board.

(3) In the 2nd period of the apprenticeship program an apprentice must acquire not less than 1560 hours of on the job training and successfully complete the technical training that is required or approved by the Board.

(4) In the 3rd period of the apprenticeship program an apprentice must acquire not less than 1560 hours of on the job training and successfully complete the technical training that is required or approved by the Board.

(5) In the 4th period of the apprenticeship program an apprentice must acquire not less than 1440 hours of on the job training and successfully complete the technical training that is required or approved by the Board.

AR 274/2000 s4;165/2017

Employment of apprentices

5(1) Where a person employs an apprentice, that employment must be carried out in accordance with this section.

(2) Subject to subsection (3), a person who is a certified journeyman in the trade or employs a certified journeyman in the trade may employ 2 apprentices and 2 additional apprentices for each additional certified journeyman in the trade that is employed by that person at the job site.

(3) Subsection (2) does not apply to an apprentice who is engaged in an apprenticeship program in the trade and has completed all the requirements required or approved by the Board for advancement into the 4th period of that apprenticeship program.

AR 274/2000 s5;48/2003;203/2003;392/2003;114/2004;102/2006;270/2006;1/2011

Wages

6(1) Subject to the *Apprenticeship Program Regulation*, a person shall not pay wages to an apprentice that are less than those provided for under subsection (2).

(2) Subject to the *Employment Standards Code*, a person employing an apprentice must pay wages to the apprentice that are at least equal to the following percentages of the wages paid to employees who are certified journeypersons in the trade:

- (a) 50% in the first period of the apprenticeship program;
- (b) 60% in the 2nd period of the apprenticeship program;
- (c) 70% in the 3rd period of the apprenticeship program;
- (d) 80% in the 4th period of the apprenticeship program.

AR 274/2000 s6;270/2006

**Transitional Provisions, Repeals,
and Coming into Force****Apprenticeship continues**

7 A person who immediately prior to January 1, 2001 was an apprentice in an apprenticeship program under the *Electrician Trade Regulation* (AR 98/95), continues as an apprenticeship in that apprenticeship program under this Regulation.

Repeal

8 The *Electrician Trade Regulation* (AR 98/95) is repealed.

9 Repealed AR 165/2017 s3.

Coming into force

10 This Regulation comes into force on January 1, 2001.



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