

**TEMPORARY FOREIGN WORKER PROGRAM**  
**OCCUPATIONAL PROFILE FOR EXPEDITED LABOUR MARKET OPINIONS**

**JOURNEYMAN/WOMAN INDUSTRIAL ELECTRICIANS**

**Section A: Occupational Profile**

**JOB DESCRIPTION:**

Industrial electricians install, maintain, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls. They are employed by electrical contractors and maintenance departments of factories, plants, mines, shipyards and other industrial establishments.

**MAIN DUTIES:**

Industrial electricians perform some or all of the following duties:

- Read and interpret drawings, blueprints, schematics and electrical code specifications to determine layout of industrial electrical equipment installations
- Install, examine, replace or repair electrical wiring, receptacles, switch boxes, conduits, feeders, fibre-optic and coaxial cable assemblies, lighting fixtures and other electrical components
- Test electrical and electronic equipment and components for continuity, current, voltage and resistance
- Maintain, repair, install and test switchgear, transformers, switchboard meters, regulators and reactors
- Maintain, repair, test and install electrical motors, generators, alternators, industrial storage batteries and hydraulic and pneumatic electrical control systems
- Troubleshoot, maintain and repair industrial, electrical and electronic control systems and other related devices
- Conduct preventive maintenance programs and keep maintenance records
- May install, maintain and calibrate industrial instrumentation and related devices.

## EMPLOYMENT REQUIREMENTS:

- Completion of secondary school is usually required.
- Completion of a four- or five-year industrial electrician apprenticeship program *or*  
A combination of over five years of work experience in the trade and some high school, college or industry courses in industrial electrical equipment is usually required to be eligible for trade certification.
- Trade certification is compulsory in Alberta, and is available, but voluntary in British Columbia
- Interprovincial trade certification (Red Seal) is also available to qualified industrial electricians.

## PREVAILING WAGE RATES BY SUB-REGION:

### ALBERTA

| Geographic Area                        | Wage<br>(per hour) |
|--|--------------------|
| Calgary/Banff/Drumheller               | \$31.24            |
| Edmonton                               | \$31.47            |
| Fort-McMurray                          | \$33.03            |
| St. Paul/Lloydminster                  | \$23.99            |
| Grande Prairie/Slave Lake/Jasper       | \$31.25            |
| Lethbridge/Medicine Hat/Crowsnest Pass | \$25.88            |
| Red Deer/Camrose/Wetaskiwin/Rocky/Olds | \$30.45            |

### BRITISH COLUMBIA

| Geographic Area            | Wage<br>(per hour) |
|----------------------------|--------------------|
| Lower Mainland Southwest   | \$27.41            |
| Northern British Columbia  | \$29.27            |
| Thompson Okanagan Kootenay | \$29.01            |
| Vancouver Island           | \$27.75            |

## PROVINCIAL LABOUR STANDARDS:

In **Alberta** refer to: [Alberta Employment, Immigration and Industry, Employment Standards Programs](#)

In **British Columbia** refer to: [Ministry of Labour and Citizen's Service, Employment Standards Branch](#)

## PROVINCIAL CERTIFICATION REQUIREMENTS:

In **Alberta** refer to: [Apprenticeship and Industry Training](#) (Government of Alberta)

In **British Columbia** refer to:

- [Industry Training Authority \(Electricians, Industrial\)](#)

## LABOUR MARKET OPINION FACTORS:

Refer to the [Temporary Foreign Worker Program](#) website to obtain the Labour Market Opinion factors used to assess an employer's request to hire a temporary foreign worker.