

## Job Title: Electrician – Construction & Maintenance

### Description

A Construction & Maintenance Electrician lays out, assembles, repairs, maintains, connects and tests electrical fixtures, apparatus, control equipment and wiring in just about every kind of residential and commercial building you can imagine.



### Work Responsibilities

- Read and interpret drawings, circuit diagrams and electrical code specifications to determine wiring layouts for new or existing installations; pull wire through conduits and through holes in walls and floors
- Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels
- Splice, join and connect wire to fixtures and components to form circuits
- Test continuity of circuits using test equipment to ensure compatibility and safety of system following installation, replacement or repair
- Troubleshoot and isolate faults in electrical and electronic systems and remove and replace faulty components
- Connect electrical power to sound and visual communication equipment, signaling devices and heating and cooling systems
- Conduct preventive maintenance programs and keep maintenance records

### Salary/Wages

Apprentices can start earning 40% increasing to 80% of a journeyperson's wages over time. Wages can range from \$14.00 to over \$40.00 an hour that usually comes with great benefits and additional overtime.

### Related Skills, Interests and Values

- Logic minded; enjoy hands-on challenging work with a safe attitude
- Reading and interpreting technical drawings and related information
- Embracing new technology with a continued interest and direction
- Testing and troubleshooting circuits to resolve circuit problems
- Communicating effectively as a member of a team with supervisors and other skilled tradespeople
- Working on a variety of different projects and tasks

## Schooling, Preparation and Requirements

The minimum entry for apprenticeship is grade ten, however many employers and unions want at least grade twelve. People start by completion of a five year apprenticeship program with eighteen-hundred hours per year and include a combination of on-the-job and in-school training. Training in high school through co-operative education, technical courses, Ontario Youth Apprenticeship Program (OYAP), and/or enroll in a Construction Specialist High Skills Major (SHSM) program are all advantages to get started.

## Future Forecast/Outlook of Field Area

Employment is expected to grow about as fast as the average for all occupations through the current year 2015 with employment opportunities linked to the economy and are somewhat cyclical. The age bubble is retiring and more hiring will be added, to support future demand

## Resources and More Information

- <http://durhamworkforceauthority.ca/occupational-profiles/>
- <http://www.apprenticesearch.com/AboutTrades/GetTradeDetails?tradeId=7&TradeName=electrician-construction-maintenance>
- <http://www.ibew353.org/>
- <http://careerbear.com/electrician>
- <https://tradesecrets.alberta.ca/trades-occupations/profiles/003/>
- <http://www.tradescollege.ca/construction-maintenance-electrician-program.html#.VIVH6VUrK5M>
- <http://www.studentscholarships.org/salary/407/electricians.php>
- <http://patinstitute.ca/index.php/cme/>
- [http://www.red-seal.ca/trades/51\\_construction\\_electrician/rs\\_tr.1d.2-eng.html](http://www.red-seal.ca/trades/51_construction_electrician/rs_tr.1d.2-eng.html)
- [http://www.ontariocolleges.ca/SearchResults/PROFESSIONS-TRADES-ELECTRICIAN-ELECTRICAL/\\_N-lpp5](http://www.ontariocolleges.ca/SearchResults/PROFESSIONS-TRADES-ELECTRICIAN-ELECTRICAL/_N-lpp5)
- <http://www.truity.com/career-profile/electrician>
- <http://www.careersinconstruction.ca/en/career/electrician>
- [http://www.payscale.com/research/CA/Job=Electrician/Hourly\\_Rate](http://www.payscale.com/research/CA/Job=Electrician/Hourly_Rate)
- [http://www.esdc.gc.ca/en/essential\\_skills/tools/construction\\_electrician\\_story.page](http://www.esdc.gc.ca/en/essential_skills/tools/construction_electrician_story.page)

