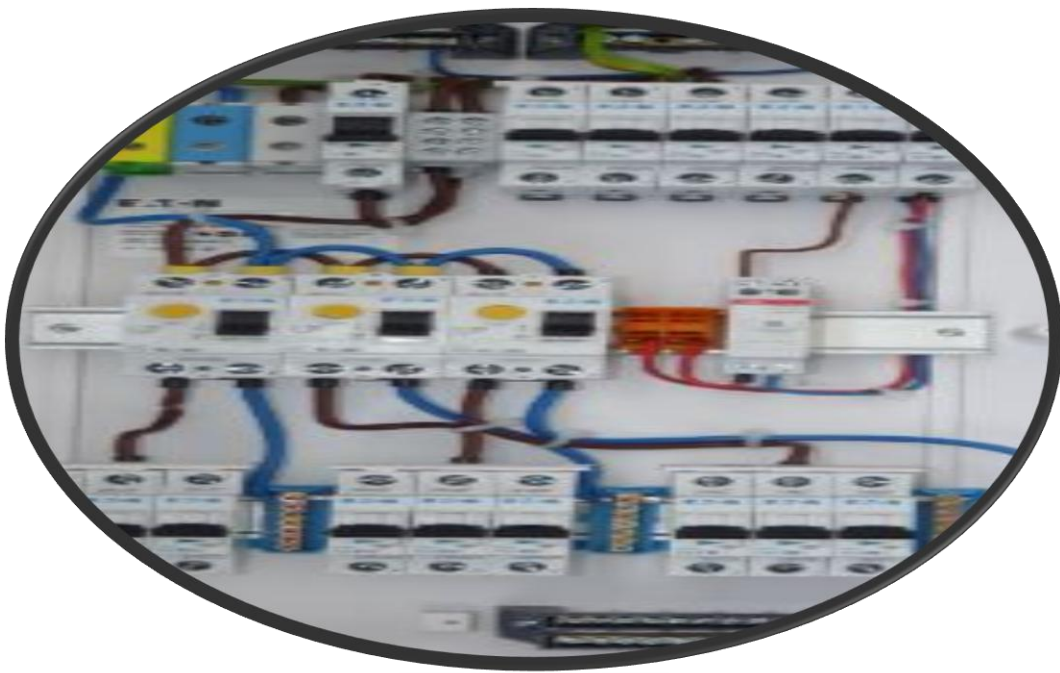


My Career in Electrical Installation



With a *Certificate in Electrical Installation*, graduates may have the possible *career options* of the following:

- Electrician
- Electrical Installer
- Electrical contractor

Electrician (Electrical Installer)

The job descriptions and job specifications for these careers are as follows:

Career Overview

Electrical Installers install, adjust, repair and or replace defective wiring and ignition relays for a variety of electrical equipment in telecommunications, transportation, utilities and other industries.

Typical Duties:

- References schematics and manufacturers specification to provide instructions and locate problems.
- Repair or rebuild equipment like starters, generators, distributors, or door controls using electrical tools.
- Splice wires with knives or cutting pliers and solder connections to fixture, outlets and equipment.
- Adjust or repair defective wiring and relays in ignition, lighting, air-conditioning, and safety control systems.
- Prepare estimate for cost of repairs based on parts and labour requirements.
- Maintain equipment service records to help the client keep his equipment properly maintained.
- Install equipment such as air-conditioning or other ignition systems and components such as generator brushes and commutator using hand tools.
- Install fixtures, outlets, terminal boards, switches and wall boxes using hand tools.
- Install new fuses, electrical cables or power sources as required.
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Typical Duties Cont'd:

- Locate, remove or repair circuit defects or malfunctioning transistors.
- Inspect and test electrical systems and equipment to locate and diagnose malfunctions, using visual inspections, testing devices and computer software.
- Locate, remove or repair circuit defects such as blown fuses or malfunctioning transistors.
- Measure, cut and install framework and conduit to support and connect wiring, control panels and junction boxes using hand tools.
- Reassemble and test equipment after repairs.
- Maintain current knowledge of machines and tools including their design, uses, repair and maintenance.

Work Environment

Standard working hours can be expected with the need for overtime when dealing with large projects and deadlines. Much of the work may be done through a firm or as a private contractor working alone or as part of a team in new commercial premises, retrofitted units, or in private accommodation.

Qualifications and Licenses

Some vocational training related to the field is needed. Certification may be obtained via City and Guilds and/or National Vocational Qualifications.

Essential Qualities and Skills

- ❖ Good communication skills to confer with customers
- ❖ Knowledge of machines and tools
- ❖ Knowledge of circuit boards, processors, chips, electronic equipment and computer hardware and software.
- ❖ Practical application of engineering science and technology
- ❖ Working appreciation of mathematical principles
- ❖ Good manual dexterity including that of the fingers and hands
- ❖ Ability to see details at close range
- ❖ Possess colour discrimination including shades and colour brightness

- ❖ Ability to follow patterns, instructions and rules
- ❖ Good physical fitness

References

Barbados Standard Occupational Classification, Major Group 712 section 7125, page 158 –
Government of Barbados, Ministry of Employment, Labour Relations and Community
Development (1990)

<http://bestjobdescriptions.com/technical/electrical-installer-job-description> Retrieved February
2016