

Electricity and Industrial Electronics

SD23 Dual Credit Program

This 40-week electrical foundation program provides students with little or no previous experience in electrical trade with the necessary skills to seek employment in that industry as an apprentice electrician. The program exposes the student to aspects of residential, commercial, and industrial systems in this trade with a focus on developing practical skills. The curriculum follows the BC Ministry of Advanced Education and Labor market Development guidelines for the first year in-class components of the Electrician Apprenticeship, which includes installation procedures in compliance with the Canadian Electrical Code for residential, commercial, and industrial systems.

Career Opportunities

Electricians find employment in the construction and industrial maintenance sectors with opportunities in specialized areas such as the movie and aircraft industries. Many electricians progress on to supervisory roles, estimating and into electrical sales working for Contractors, Construction Firms, Maintenance Departments, industrial Facilities, Hospitals and School Boards. For more information on Electrician employment opportunities:

WorkBC – www.workbc.ca

ITA – www.itabc.ca

Program Outline

This program combines theory and hands-on training in the following courses, with a minimum passing grade of 70% per component.

TELX 1150	Applied Mechanics
TELX 1152	Fundamentals of Elect.
TELX 1154	Wiring Magnetism
TELX 1158	Code, Prints, Drawings
TELX 2130	AC Circuit Analysis
TELX 2132	AC Applications
TELX 2134	Electronic Devices
TELX 2136	Basic Motor Control
TELX 2138	Industrial Wiring & Data Cabling
TELX 2140	Computers and Job Preparation
Level One Technical Exam	



Tuition*

Tuition is paid for by the school district. Secondary school students will be registered as a BCIT student and will be responsible to pay for books, tools, material, and ancillary fees.

- Tuition: \$5,287.50 (*SD 23 pays*)
- Textbooks: Approximately \$1,050 (*student pays*)
 - (students must provide their own boots)

*All program costs are approximate and subject to change without notice

Program Schedule

Program duration: 40 weeks (July – Aug break)

Start Date: Semester 2

Monday to Friday, 9 am to 3 pm

Locations

775 Graham Road Campus (beside Quigley Elementary School)

Student for a Day

Arrange your shop tour or Student for a Day experience by contacting your school Career Coordinator.

Credentials Received

Graduates of this program receive credit for Level 1 technical training and will be granted 350 hours practical credit by the Industry Training Authority once they begin working as an apprentice. High school students will be given **32 elective credits towards Grade 12 graduation.**

Physical Requirements

- Lift and carry tools, equipment, supplies and materials weighing up to approximately 30 lbs.
- Lift, carry, hold and operate hand, air and power tools from below grade to above shoulders
- Stand on concrete, dirt, rock, asphalt, wood, etc. for extended periods of time
- Bend, stoop, kneel, crawl to perform electrical tasks
- Work in confined spaces and trenches
- Work in both indoor and outdoor venues, through all seasonal challenges
- Push/pull and carry electrical construction materials and troubleshooting equipment
- Climb extension ladders, and work on scaffolding at heights

Recommendations for Success

- Good general health and respiratory condition
- Capable of doing physical work
- Physical strength and stamina compatible with the handling of heavy equipment and materials
- Ability to tolerate noise and vibration
- Balance and coordination to walk on uneven ground for up to 8 hours per day
- Good manual dexterity
- Good hand-eye coordination
- Satisfactory eyesight, line, form and depth perception
- Willing to work in team and individual environments



Sponsorship Requirements for School District Students

- Attend “Student for a Day” at the 775 Graham Road campus
- Complete the School District application package and hand it into your Career Programs Coordinator
- Be on track to graduate with a Dogwood diploma
- Meet with Career Coordinator to review program and school district expectations
- BCIT course requirements/admission requirements met for program
- Application approved and accepted by School District
- An interview may be required for potential applicants

Focus on Safety

BCIT is committed to providing a safe learning environment for students. All students are responsible for:

- Knowing safe work procedures in classroom, shop, and work areas.
- Following the safety standards as taught by the instructor. These standards meet or exceed the regulatory requirements of the WorkSafe BC Occupational Health and Safety Regulation.

Failure to do so may result in suspension from the program. Each student is expected to report any unsafe condition or unsafe behavior to his/her instructor.

CONTACTS:

Applications are available at your school **Career Centre** or www.dualcredit23.com

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Consider a challenging career in a diverse field