



The School of Trades and Technology offers exceptional electrical courses and programs, provides an excellent learning environment and the advanced knowledge required for the electrical trade

Application of Electrical Code FSR Course – 2012 Code (XELC 0630)

Tuesday and Thursday evenings 6:00 – 9:00 pm

January 28 to March 20, 2014

\$645 (texts & exam extra) (48 hrs)

This course is designed for qualified electricians who may want to write the Safety Authority provincial exam to attain their Field Safety Representative status / Contractors License (A, B, C ticket). Those wanting a code refresher or who do not meet the prerequisites and do not plan to write the exam may also enroll.

Required Text and Course Materials:

- 2012 Canadian Electrical Code Book
- Safety Standards Act
- Safety Standards General Regulation
- Electrical Safety Regulation
- Errata to the 2012 Canadian Electrical Code Book
- BC Safety Authority Electrical Fee Schedule
- BC Safety Authority Information Bulletins
- BC Safety Authority Electrical Directives



This course is now available on-line – call for more information

Programmable Logic Controllers (PLC) – Level 1 (XELC 0670)

Friday 6:30-9:30 pm, Saturday 8:00 am – 3:30 pm

February 28 – March 15, 2014

\$625 (30 hrs)

This course is designed to introduce electricians, as well as those who are familiar with conventional motor control theory, to the basic operating principles and various field applications of Programmable Logic Controllers. The course will be based on Allen Bradley systems but will also include discussion on GE and Modicon brands. PLC software training will include a hands-on project to operate a lumber J-bar sorter. Programming instructions will include timers and counters, as well as several more advanced instructions.

Programmable Logic Controllers (PLC) – Level 2 (XELC 0770)

Friday 6:30-9:30 pm, Sat 8:00 am – 3:30 pm

April 25 – May 17, 2014

\$825 (40 hrs)

This course is designed to take the student beyond the basic level of PLC programming and installation. It will expand on the PLC architecture, analogue I/O as well as PLC to PLC communication via Ethernet. More advanced instructions are incorporated in laboratory experiments. These include math, program control and data manipulation as well as others. An introduction to Human Machine Interfacing (HMI) to the PLC will be given. The student will be completing a number of labs involving the course theory covered.

Industrial Electrician “Red-Seal” Exam Preparation Course (XELC 0790)

Ongoing On-Line Delivery \$895

This course is designed to assist industrial electricians wishing to challenge the “Red Seal” exam. In order to attempt the exam, written proof of 9000 hours of direct experience in the trade is required. Before registering for this course, please contact the Industry Training Authority at 1 (866) 660-6011 to confirm your eligibility.

Construction Electrician “Red-Seal” Exam Preparation Course (XELC 0850)

Ongoing On-Line Delivery \$895 *Coming Spring 2014*



This course is designed to assist construction electricians wishing to challenge the “Red Seal” exam. In order to attempt the exam, written proof of 9000 hours of direct experience in the trade is required. Before registering for this course, please contact the Industry Training Authority at 1 (866) 660-6011 to confirm your eligibility.

Introduction to SCADA (XELC 0010)

Friday 6:30-9:30 pm, Saturday 8:00 am – 3:30 pm

March 28 – April 12, 2014

\$625 (30 hrs)

The *Introduction to SCADA* course will give students the basics of a modern plant-wide control system called SCADA or Supervisory Control and Data Acquisition. SCADA relies on a collection of merging technologies such as computers (and associated software), PLC’s, Operator Interfaces, and telemetry networks which allow the collection of data and control of equipment in remote locations. Students will be expected to have a fundamental knowledge of motor control, and industrial controllers (PLC’s or DCS). The course would be ideal for electricians (Red Seal or apprentices) that are pursuing an industrial maintenance type position. Allen-Bradley PLC’s with RS Logix 500 programming software and Wonderware InTouch HMI software will be the systems used in this course.

Arc Flash Safety Workshop (XWLD 0540)

Saturday 8:00 am – 3:30 pm

April 26, 2014

\$275 (7 hrs)

Arc Flash Training Workshop designed for front line workers responsible for electrical systems in the CSA Z462-12 electrical safety standard. Students will gain a full understanding of hazards encountered while operating or maintaining electrical installations in the low voltage (below 750 volts) class including a full understanding of the arc hazard categorization, appropriate personal protective equipment selection and safe work procedures. This one day workshop is designed to assist organizations to identify shock and arc flash hazards and prevent injuries and incidents associated with those hazards.

How to Be a Better Foreman (XWRK 0980)

Friday 8:00 am to 3:30 pm



April 11, 2014

\$299 (7 hrs)

Gold Seal Recognized

Many great trades people take a foreman position and fail. Not for lack of skills or drive but simply for lack of guidance on how to be a great foreman. This 1-day course gives participants the fundamentals of field leadership, organization, crew morale, efficiency, and productivity. Students will gain knowledge on understanding why and how many foremen fail, how the foreman’s role has changed, dealing with workplace conflict tactfully, learning how to anticipate production and jobsite issues, understanding general and subcontractor dynamics, roles as leaders and how you play a major role in increasing jobsite productivity.

For More Information and Registration

Phone: (250) 828-5041

In Person: Registrar’s Office - Old Main Building, Mon - Fri. 9:00 am – 3:00 pm

E-mail: ContinuingStudies@tru.ca or Trades@tru.ca

On-line: www.tru.ca/trades/constudies