

TRU Career Technical Centre
“bridging secondary and post-secondary education”
Trades Training for Secondary School Students

TRU ELECTRICAL PROGRAM

Program Description:

As our population grows, so does the demand for electricity and electricians. Individuals in this highly skilled trade enjoy a high employment rate and better than average pay scale. Electricians in the province of BC must be government certified, so training must be of the highest standard.

Training topics include applications for residential, commercial and industrial work, such as:

- Use and Care of Hand Tools
- Use and Care of Electrical Instruments
- Electrical Theory and Calculations
- Canadian Electrical Code
- Low-Voltage Wiring Applications
- Motors and Motor Controls
- Electrical Circuit Panels
- Electrical Meters
- Wiring Practices
- Underground and Overhead Service Connections

Job Opportunities:

Upon completion of the TRU Electrical Foundation Program, students find employment in electrical companies where they can be indentured as an apprentice. Examples of potential employment include commercial and residential electrical contractors, electrical service companies, electrical wholesale or distribution companies, and motor winding companies. Upon obtaining journey person certification, there is opportunity to start a business!

Benefits of Attending the Electrical Foundation Program as a CTC student:

- Early admission to post-secondary studies while still in secondary school
- **No post-secondary tuition fees while enrolled as a TRU CTC student (a savings of over \$1,900).** Students are responsible for some program costs – such as books and/or training guides, basic set of electrician’s hand tools, personal safety equipment– see page 2 of the CTC application for details. See page 5 of this brochure for a list of hand tools students must purchase.
- Obtain twenty-four Grade 12 credits for your secondary school diploma, the TRU Electrical Foundation Certificate **and** credit for Level One technical training of the Construction Electrician Apprenticeship, all in one semester (6 months)!
- Get a jump-start into a truly rewarding trade career.

Who is Eligible to Apply for the TRU Electrical Program – 2010 CTC Intake?

- There are five (5) CTC seats available for secondary school students for the Fall 2011 training option **plus** five (5) CTC seats available for the Winter 2012 training option (subject to funding)
- Students must be born after September 30, 1992 to allow them to participate in post-secondary training during their Grade 12 school year
- Students attending an SD58, SD73, SD74 or SD83 Secondary School, who are currently in Grade 10, are eligible to apply prior to the **early application deadline of April 8, 2010**. Grade 10 students from other BC school districts should contact their school counselor to discuss their eligibility. If approved, the student should then submit an application prior to the early application deadline to be eligible for selection for any CTC seats remaining after the SD58, SD73, SD74 and SD83 seat assignments are completed.
- Applications received after the April 8, 2010 early application deadline will be assessed on a first-come-and-qualified, first-served basis. Qualifying students will be assigned to any remaining CTC seats or added to the program waitlist.

**** Program subject to funding approval by the ITA and TRU ****

TRU Electrical Foundation Training

What credentials can I earn with this program?

Upon successful completion of this program, the student will receive the TRU Electrical Foundation Certificate. The ITA will grant Level 1 technical training credit and 350 work-based hours credit toward completion of the Electrical Level 1 Apprenticeship requirements.

What further training do I qualify for?

Check out the Industry Training Authority website: www.itabc.ca and their list of apprenticeship and Red Seal program listings: <http://www.itabc.ca/Page496.aspx> . Upon successful completion of the second, third and fourth levels of the Electrical apprenticeship program, the student will be eligible to write the inter-provincial exam to gain journey person certification. Construction Electrician and Industrial Electrician are both nationally designated trades under the Inter-provincial Red Seal program.

How do I Apply?

CTC application forms and brochures are available via the TRU Transitions Webpage:

www.tru.ca/trades/transition

Please contact your local school counselor to assist you with the application process. If you require further information, please contact Leslie Matthews: (250) 828-5109 or email: ctc-kamloops@tru.ca.

Application Requirements:

- Full Grade 9 background (with no failed core courses) and maintain a passing grade level in current Grade 10 studies
- Interview with secondary school counselor (to select courses and review the CTC application)
- All sections of the CTC application form must be completed, a copy of the final Grade 9 and current Grade 10 report cards & attendance records.

Prerequisites for the Start of Post-Secondary Training:

Admission Requirements:

(see page 4 of this brochure for more details)

- A full Grade 10 background (no failed core courses)
- Students must successfully complete all Grade 11 and 12 core courses during their Grade 11 school year, including Principles of Math 11 (or Applications of Math 12) and Physics 11
It is strongly recommended that a student obtain a minimum C+ average in: Principles of Math 11 (or Applications of Math 12), Physics 11 and English 12 (or Communications 12)
- Student must write the Accuplacer test by March 10, 2011 and obtain a successful placement no less than 60 days prior to start of training.
- Student must provide a current secondary school transcript prior to the start of post secondary training.

TRU Electrical Foundation Training

CTC Two-Year Training Schedule:

September 2010 – June 2011:

- Complete all Grade 11 and 12 core courses required for graduation plus the electives of your choice

By March 10, 2011:

- Obtain satisfactory score on Accuplacer test (see next page)

Spring 2011:

- IF Accuplacer scores are not acceptable, student has the option to take the necessary Math or English upgrading courses during the spring of 2011 – student must commit in writing to this upgrading by April 15, 2011 to maintain his/her seat in the program. Student is responsible for booking and paying for any Accuplacer rewrites necessary. A successful Accuplacer rewrite is required no later than 60 days prior to the start of Post Secondary training.

June 2011 (Option 1) or January 2012 (Option 2):

- Prior to the start of post-secondary training, student and parent/guardian must attend a CTC Electrical Program orientation session
- During the orientation session, the instructor will confirm the list of materials the student must purchase (i.e. CSA work boots and safety glasses, learning guides, Canadian Electrical Code Book and manuals, scientific (non-programmable) calculator, etc.)
- Student will be required to pay the TRU \$25 application fee at this time – see page 2 of the CTC application for more details on program costs that the student must be responsible to pay.

Option 1 – Fall 2011 Training – 5 CTC seats available (subject to funding)

- **August 2011 – January 2012:** Complete CTC-hosted Electrical Foundation program at TRU Kamloops (student is responsible for transportation/accommodations costs)
- Student will receive twenty-four Grade 12 credits upon completion of the TRU Electrical Foundation Program.
- **February – June 2012:** Complete four Grade 11/12 courses of your choice at your local secondary school (**or, if you have met all grad requirements** – make sure you confirm this with your secondary school counselor - see Summer 2012 plan and get a head start on your apprenticeship work experience hours!)

Option 2 – Winter 2012 Training – 5 CTC seats available (subject to funding)

- **September 2011 – January 2012:** Complete four Grade 11/12 courses of your choice at your local secondary school
- **February – July 2012:** Complete the Electrical Foundation program at TRU Kamloops (student is responsible for transportation/accommodations costs)
- Student will receive twenty-four Grade 12 credits upon completion of the TRU Electrical Foundation Program.

Summer 2012: Find an employer who will hire and indenture you as their Construction or Industrial Electrician apprentice, and complete your apprenticeship over the next 3-4 years.

NOTE: Final funding & scheduling decisions may affect seat availability, training length (which may affect start/end dates). Delivery of all programs is subject to funding approval by the Industry Training Authority and TRU.

2010 CTC Entrance Requirements

Construction Trades Foundation Training

The TRU Construction Trades Faculty has set the entrance requirements for secondary school students who are applying for CTC seats in the 2010 Construction Trades Foundation programs. The following information provides details of these requirements:

- **Accuplacer Exam:**

All 2010 CTC applicants for Foundation Construction programs must write the Accuplacer exam. Applicants must obtain the minimum placement level on the Accuplacer exam, as indicated below.

- **Writing the Accuplacer Exam:**

All 2010 CTC applicants must write the Accuplacer exam no later than March 10, 2011. Students write the Accuplacer exam at the TRU Assessment Centre. Students are advised to contact the TRU Assessment Centre early in February 2011: by phone (250) 828-5470 or email assess@tru.ca to book their time. When booking, students must identify themselves as a '**CTC**' student to be sure the results are reported to the CTC/Transitions office. Applicants are responsible for the Accuplacer exam fee (currently \$35). Detailed information about Accuplacer testing at TRU is available on the TRU Assessment Centre website at:

http://www.tru.ca/studentervices/assmnt/tru_entry_assessments.html

Note: *IF Accuplacer scores are not acceptable, student has the option to take the necessary Math and/or English upgrading courses during April - June 2011 – student must commit in writing to this upgrading by April 15, 2011 to maintain his/her seat in the program. Student is responsible for booking and paying for any Accuplacer rewrites necessary. A successful Accuplacer rewrite is required no later than 60 days prior to the start of Post Secondary training.*

Construction Trades Foundation Training Entrance Standards

Required Placements for the Accuplacer Exam:

	Math	English
Electrical	0600	0600
Industrial Electrician / Instrument Mechanic	0600	0600
Joinery	0500	0500
Carpentry	0500	0500
Piping Trades/Plumbing	0500	0600

(*0500 is approximately equivalent to Grade 11 and 0600 Grade 12)

Math Requirement:

Only Principals of Math 11 or Applications of Math 12 are accepted for the Electrical Program

Grade 12 Requirement:

All CTC applicants must complete their Grade 11 and 12 core courses, prior to the beginning of their post-secondary training

Note: Effective April 9, 2010, any remaining seats for the 2010 CTC Intake will be assigned on a first-come-and-qualified, first-served basis... completed applications should be submitted to TRU Transitions, attn: Leslie Matthews (250) 828-5109 fax 828-5492, ASAP!

The Electrical Foundation Program at TRU requires students to purchase their own hand tools. The approximate cost is \$350.00. A student may purchase his/her their tools before class starts or during the first three days of the program at one of the following locations:

- E.B. Horsman & Son
- Guillevin International CO.
- ECCOL Electric

- Wesco Distribution Canada
- Westburne Electric Supply

Note: Home Depot sells all the above tools individually, but does not offer a Tool/Pouch starter Kit.

Electrical Foundation Required Tool List

Students need to purchase a Klein, Ideal or Greenlee starter Tool/Pouch kit which will come with most of the items listed below. Any item not included in the starter kit must be purchased separately. All the tools listed below are required for the program.

- Tool Pouch
- Belt for Tool Pouch
- Hacksaw with 2 - 12" blades (32 Teeth per inch)
- 5M or 16 foot (3/4") Tape measure
- 1 – Electrician's Knife (small curved blade)
- Flat Blade Screwdriver (Shank and handle Length approx 9") Blade width is 3/16"
- Flat Blade heavy duty Screwdriver (Shank & handle Length approx 11") Blade width is 5/16"
- Robertson #8 Screwdriver (total length 8" to 10")
- Robertson #6 Screwdriver (total length 8" to 10")
- Set of Slip Joint Pliers 10"
- Side Cutters: high leverage side-cutting pliers with insulated comfort grips on handle (approx. 9" in length)
- Linesman Pliers: high leverage diagonal-cutting pliers with insulated comfort grips on handles (approx. 8" in length)
- Wire Stripper-Cutters (strips wire up to #10 AWG)
- Needle Nose Pliers (approx. 8" in total length)
- #2 Phillips Screw Driver (total length approx. 8 to 10")
- 16 Oz. Hammer (Hammer Holder if required, Tool pouch may come with one)
- 9 inch Torpedo Level (magnetic)