

Pre-Employment Construction Trades Programs

**For more information contact:
Telephone: (250) 828-5046
Email: Admissions_Trades@tru.ca**

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ADMISSION INFORMATION

- **Carpentry and Joinery**
- **Electrical Foundation**
- **Electrician and Industrial Instrumentation Mechanic Foundation**
- **Plumbing (Piping) Foundation**
- **Residential Construction**
- **Trowel Trades**

Carpentry and Joinery:

The 29 week Carpentry and Joinery Foundation program provides students with hands on experience in the use of carpentry and joinery tools, portable power tools, shop power tools and other equipment used in the Carpentry and Joinery trades. Students will be working with lumber, panel products, different wood types, jigs, concrete, roofing materials, fasteners, and a wide variety of hardware. The theory and practice will cover building numerous projects including stairs, concrete forms, framed floors, walls, roofs, solid wood furniture, cabinets and kitchen cabinets. The projects will prepare students for entry-level employment into either the carpentry or joinery trade. Approximately 65% of the course content will be spent in shop building various projects the remaining time is spent in class. Graduates will receive credit for first year apprenticeship technical training for level carpentry and joinery.

Electrical:

The Electrical Foundation program covers care and use of hand tools and electrical instruments, installation and maintenance of electrical equipment, electrical theory and calculations, and the Canadian Electrical Code.

The program is designed to prepare the student for employment in the electrical or related fields in residential, commercial and industrial environments. Due to market conditions, not all Construction Electrician Foundation graduates are able to find apprenticeships locally. Graduates willing to relocate to the Lower Mainland, the Okanagan, Northeastern BC or Alberta enjoy excellent employment prospects. Graduates of the Electrical Foundation program receive credit for first year apprenticeship technical training.

Foundation Program: The Electrical Foundation program covers care and use of hand tools and electrical instruments, installation and maintenance of electrical equipment, electrical theory and calculations, and the Canadian Electrical Code.

Hands-On: Students engage in extensive practical exercises to develop job readiness skills.

Real World: At TRU, Trades Foundation training is designed to have the same structure as the real world of employment, with a rigorous schedule of start times and attendance requirements. Students who miss more than three days of training without prior approval may be asked to withdraw from the program.

Employment and Careers: The program is designed to prepare the student for employment in the electrical or related fields in residential, commercial and industrial environments. Due to market conditions, not all Construction Electrician Foundation graduates are able to find apprenticeships locally. Graduates willing to relocate to the Lower Mainland, the Okanagan, Northeastern BC or Alberta enjoy excellent employment prospects. Graduates of the Electrical Foundation program receive credit for first year apprenticeship technical training.

Electrician and Industrial Instrumentation Mechanic:

TRU is pleased to offer the province's first ever dual-trade foundation program. Trades persons with technical skills in both electrical and instrumentation are becoming increasingly valuable in meeting the technical challenges of the modern industrial workplace. An industrial electrician is a skilled individual who possesses fundamental and specialized knowledge and skills related to the installation and maintenance of electrical devices and components found in the industrial setting. Industrial electricians inspect, install, and service electrical equipment such as motors, generators, pumps, lighting systems, communication systems and associated control systems.

The instrumentation mechanic is a person who installs and maintains process monitoring and control instruments required for the automation of industrial processes. The instruments in the industrial environment include indicators, recorders, controllers, transmitters and final control elements using electrical, electronic, pneumatic and hydraulic energy forms.

The successful graduate will be allowed to write both the first year industrial electrical and instrumentation mechanic apprenticeship provincial exams. At that point students will have the option of entering either trade with the future potential of becoming dual ticketed. This program offers the first level of apprenticeship. Subsequent levels may be taken at Northern Lights College in Fort St. John or BCIT in Burnaby.

Technical and Hands-on Training: Students engage in daily technical training in a classroom setting. To support the in-class training and to develop job readiness skills, students also engage in extensive practical exercises. Because of the importance of computer controlled systems in the electrical and instrumentation trades, computers and associated software are used extensively in training. The program calls on students to develop strong mechanical aptitude and an understanding of applied science.

Employment and Careers: The Electrician and Industrial Instrumentation Mechanic Foundation program has a strong focus on the industrial sector. The combination of electrical and instrumentation training prepares students for entry into factories, mines, mills, ship yards, petrochemical processes and other industrial settings. The program is also inclusive of the residential and commercial environments, thereby ensuring that graduates have several options for entry into the trade.

Program Content: Developing essential skills in: Safe work practices; The use of tools and equipment; Computer programs required for the electrical and instrumentation trades; Applied trade math and science; Applying circuit concepts; Using test equipment; Reading and interpreting drawings and manuals; Applying Canadian Electrical Code regulations and standards; Occupational skills for the electrical and instrumentation trades; Computer aided drafting systems(CAD). **Installing and maintaining:** Low voltage distribution systems; Measuring and indicating devices; Safety and process monitoring systems; Pneumatic and hydraulic systems; Electrical and electronic control systems; Final control elements; Communications, networking and signal transmission systems; Process control systems. **Developing an understanding of:** Power principles as applied to hydro, solar and wind power; Industrial and municipal processes for the mining, lumber, pulp and paper, and water treatment sectors

Plumbing (Piping):

Plumbers install, alter and repair the systems that keep our water and waste disposal systems running, and that provide many of the basic amenities we rely on day-to-day. They read and interpret blueprints and project specifications. Plumbers also select the type and size of pipe required for a project and measure, shape and join pipes according to the appropriate specifications. They sometimes alter structures to accommodate the pipes. Plumber is a nationally designated trade under the Inter-provincial Red Seal program. Gasfitters install, test, maintain and repair propane/natural gas lines, appliances, equipment and accessories in residential and commercial premises. Sprinkler System Installers install and repair fire protection sprinkler systems in a variety of buildings and settings. They work with piping, tubing, accessories and connections. Sprinkler System Installer is a designated trade under the Inter-provincial Red Seal program. Pipefitters use blueprints and project specifications to construct and repair piping systems that carry water, steam, chemicals and fuel. Steamfitters are typically Pipefitters who specialize in pipe systems that move liquids or gases under high pressure. Steamfitter/Pipefitter is a nationally designated trade under the Inter-provincial Red Seal program.

Technical and Hands-On Training

Students engage in technical training in a classroom setting, which includes safety, trades math and applied science. In-class training is supported by practical exercises completed in a shop environment. These exercises, which comprise approximately half the course content, allow students to gain familiarity with the hand and power tools used in the plumbing and pipefitting trades. Students work extensively with piping materials such as copper, cast iron, black iron, and plastics, and gain experience in fixture installation. Students may have the opportunity to participate in plumbing a house in the community, working with other Foundation students from the carpentry and electrical programs.

Real World: Trades training at TRU is designed to have the same structure as the real world of employment, with a rigorous schedule of start times and attendance requirements. Students who miss more than three days of training without prior approval may be asked to withdraw from the program.

Employment and Careers: The Plumbing Foundation program prepares the student for employment in the residential, commercial or industrial setting. As employment prospects are dependent on the economy, graduates may need to relocate to gain steady employment.

Residential Construction:

The 32 week Residential Construction Foundation program provides students with hands on use of carpentry tools, portable power tools and other equipment used in the carpentry trade. Students will be working with lumber, panel products, concrete, roofing materials, fasteners, and a wide variety of hardware. Theory and practice will cover building numerous projects including stairs, concrete forms, framed floors, walls, and roofs. Approximately 70% of class time is done building projects including the building of a house in the Kamloops community. Graduates will receive credit for first and second year apprenticeship technical training.

Trowel Trades:

This 21 week foundation program covers the curriculum and practical experience to grant the successful student first year apprenticeship credit for three different masonry trades: Bricklayer, Tiler and Cement Mason. **'Bricklayer'** means a person who places and repairs: bricks, concrete blocks, stone marble, pre-cast artificial masonry units, engineered masonry panels, refractories, caulking and cleaning, placing of damp proofing, masonry flashing, and such other work as is usually done by a mason. **'Tiler'** means a person who prepares bases, including waterproof membranes, metal lath and fasteners, back-up materials pertaining to tile, mixing and use of cement mortars. Applies a variety of tile including: vitreous, quarry, ceramic, terrazzo, quartzite, glass, ceramic veneer, granite, slate, brick pavers, thin bricks and marble to walls, floors and ceilings, fire places, steam rooms, arches, swimming pools, circular walls and stairways, and other such work as performed by a journeyman Tiler. **'Cement Mason'** means a person who: a) Finishes all concrete construction, such as floors, walls, ceilings, sidewalks, curbs and gutters, whether finished by trowel or float or any other processes, and b) Sacks, chips, rubs, grinds and cures by compounds in concrete finishing work, and c) Dry packs, grouts and finishes in connection with setting machinery, such as engines, generators, air compressors and tanks, and includes any other work that is generally performed by a journeyman cement mason.

Program Length & Commencement Dates

	Length (weeks)	Start Dates
Carpentry and Joinery Foundation	29	February 2015
Electrical Foundation	26*	August 2014
Electrician and Industrial Instrumentation Mechanic	24	February 2015
Plumbing (Piping) Foundation	31*	August 2014
Residential Construction	29	February 2015
Trowel Trades	27*	July 2014
	26	February 2015
	32*	July 2014
	21	September 2014

NOTE: Program lengths and start dates are under review and subject to change. Please review the following link for updated Foundation dates: <http://www.tru.ca/trades/foundation.html#Training%20Dates>

*Please note that TRU is closed December 25, 2014 to January 1, 2015. TRU services will re-open on January 2 and all classes will commence on January 5, 2015

Program Admission Requirements

Accuplacer Test. Please see chart below for acceptable scores on Entry Assessment Test

Please contact the TRU Assessment Centre for information and testing times at (250) 828-5470 or email assess@tru.ca. The cost to write an Accuplacer test is \$35.00. Please note that out of town testing is available by contacting the Assessment Centre or at the following link: http://www.tru.ca/student-services/assmnt/tru_entry_assessments/accu.html

TRU Admission - General Policy

Basic Requirements

The basic requirements for admission to most TRU programs include:

- Completion of BC Grade 12 (or equivalent) or Mature Student Status
- Canadian Citizenship or Permanent Residence status or study permit

Admission Of Mature Students

Any applicant of at least 19 years of age with a minimum of two years out of school who is lacking requirements for a program or course will be considered for mature student admission status. Although the grade level requirement (grade 10, grade 12, etc.) will be waived for students classified as mature, individual course prerequisites listed for the program or course being applied for must be met.

Accuplacer Grades Required by Program

Program	Reading Comprehension	Sentence Skills	Write Placer*	Arithmetic	Elementary Algebra
- Residential Construction - Carpentry & Joinery	65	60	-	65	40
- Plumbing (Piping)	75	-	-	65	40
- Electrical - Electrical & Industrial Instrumentation Mechanic	75	70	-	75	50
- Automotive Service Technician	75	-	-	65	40
- Heavy Duty/Commercial Transport - Welding	55	-	-	55	30
- Parts & Warehousing - Trowel Trades - Water Treatment	55	-	-	55	

Application Procedure

Please submit each document as soon as possible.

- **2014 - 2015** Application for Admission form or apply on-line at: <http://www.tru.ca/admissions/apply.html>
- Application fee of \$26.51, if you have never attended TRU before
- Assessment Test Results
- Official Ministry of Education High School transcript or copy thereof
- Canadian Citizenship or Permanent Residence Status.

This application package is valid through **October 1, 2013 to August 31, 2014**. If you are applying after August 31, 2014, please contact Admissions for an updated application package. **Seating is limited and allocated on a first come/first serve basis to students who have successfully met all program requirements.**

Registration & Payment of Fees

You will be notified in writing by the Registrar's Office once you have been admitted to a program. You will be required to pay a \$500.00 Commitment Fee to confirm your seat in the program. If you do not do this by the specified date, your seat will be offered to the next person on the waitlist. The Registrar's Office will also advise you when your tuition is due by giving you a billing deadline. Fees are based on a calculation of approximately \$495.00 per month plus book and supply costs. Please contact the Bookstore at (250) 828-5141 for text book costs.

Re-Application

If you were not accepted OR applied but did not attend last year, you must submit a **NEW** application form. Contact Admissions to ensure that all your required documentation is still on file and complete. Please contact Admissions by email at vmazzei@tru.ca or telephone (250) 828-5046 if you have any questions.

Telephone Numbers to Assist You

TRU Academic Advising (advising@tru.ca)	250-828-5075
TRU Assessment Center (assess@tru.ca)	250-828-5470
TRU Bookstore (bookies@tru.ca)	250-828-5141
TRU Campus Cashier	250-371-5646
TRU Financial Aid & Awards (finaid@tru.ca)	250-828-5024
TRU Registrar's Office Admissions Officer, Vera Mazzei Email : (vmazzei@tru.ca) Fax : 250-371-5960	250-828-5046
TRUSU – Student Society (info@trusu.ca)	250-828-5289

Resources That May Assist You

Industry Training Authority:

Telephone: 1-866-660-6011

Website: www.itabc.ca