



## CONSTRUCTION FOUNDATION TRAINING

ELECTRICAL  
INSTRUMENTATION AND CONTROL TECHNICIAN

PLUMBING  
CARPENTRY

REFRIGERATION MECHANIC  
**PROGRAM INFORMATION PACKAGE**

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### PROGRAMS DESCRIPTIONS

#### **ELECTRICAL**

[Construction electricians](#) work in a wide variety of buildings and facilities - on everything from lighting and climate control systems, to communication equipment and thousands of other specific tools and devices. A construction electrician's work involves assembling, installing, commissioning, testing, maintaining, servicing and operating electrical systems and equipment. Construction electricians need a good understanding of the many applications of electricity, and must ensure that building codes and other safety requirements are followed.

#### **INSTRUMENTATION and CONTROL TECHNICIAN**

[Instrumentation and control technicians](#) (industrial instrument mechanics) install, repair, maintain and adjust instruments used to measure and control industrial processes such as pulp and paper manufacturing and petrochemical production. These types of instruments are typically used for controlling factors such as the flow of gases or liquids, temperature of materials or stages of a process pressure maintained during a process-level of a material used or created during a process.

#### **PLUMBING**

[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.

[Steamfitter/pipefitters](#) test and maintain the systems once they are in place, using specialized equipment to ensure the safety of the pipes and other components of the system such as the automatic controls that are increasingly being used to monitor these systems. Steamfitter/pipefitters often work on heating and cooling systems in large industrial plants as well as various systems in electric power plants. They must know how to work with a wide variety of materials because these systems are made of several different types of materials including steel, copper, plastic and numerous metal alloys.

#### **CARPENTRY**

This [program](#) is an introduction to the carpentry trade. Students gain familiarity with the use of hand tools, portable power tools and other equipment regularly used by carpenters. Students also have ample opportunities to work with the materials used by carpenters including lumber, panel products, concrete, roofing materials, fasteners and a wide variety of hardware. Theory and practice are

offered to allow students to build numerous projects including stairs, forms for concrete, framed floors, walls and roofs. Students spend approximately 70 percent of their time building various projects of which the major project is a house built in the community.

Graduates receive credit for first- and second-year carpenter apprenticeship technical training. This class builds the YMCA Dream Home.

## REFRIGERATION MECHANIC

[Refrigeration mechanics](#) are designated under the interprovincial Red Seal program as refrigeration and air-conditioning mechanics.

They make, install, repair and service residential, commercial and industrial cooling and heating systems. Some work in building maintenance — for example, servicing the air-conditioning systems in high-rise office buildings. Others specialize in repairing small, portable refrigeration and freezing units.

Part of the job involves measuring, cutting and connecting pipe using welding and brazing equipment. Refrigeration mechanics recharge systems with refrigerant gases as required. They also connect rooftop units to gas, test and balance systems and connect electrical systems. They must be able to use and adjust computerized controls, use computer software to calculate loads, and work on large machines. In some cases, they need to prepare work estimates for clients.

## INTAKE DATES

PROGRAM	START DATE
ELECTRICAL	February 21, 2021 April 26, 2021 August 3, 2021 January 31, 2022
INSTRUMENTATION AND CONTROL TECHNICIAN	February 1, 2021 January 31, 2022
PLUMBING	February 1, 2021 January 31, 2022
CARPENTRY	July 12, 2021
REFRIGERATION MECHANIC	February 1, 2021 January 21, 2022

Please note program lengths and start dates are subject to change. Please review the updated [Foundation Training dates](#).

## ADMISSION REQUIREMENTS

- BC Grade 12 (or equivalent) or [mature student status](#)
- [Accuplacer Assessment](#)

Contact the Assessment Centre directly for information, on-campus and out-of-town testing at [assess@tru.ca](mailto:assess@tru.ca) or 250-828-5470. Some programs may have additional admission requirements. Please see the specific foundation program page for details.

## HOW TO APPLY

1. Apply online through [EducationPlannerBC](#)
2. [Submit official transcript\(s\)](#) to Enrolment Services

#### Official High School Transcripts:

BC high school applicants must register to release their transcript to TRU through the [Student Transcript Service \(STS\)](#). For assistance with this process, please refer to the Transcript Service help videos or connect with our Future Students team at 250-828-5006. Out of province applicants must send their official transcripts now and at the time of graduation. Please visit your provincial or territorial Ministry of Education for further information on how to order.

#### Official Post-Secondary Transcripts:

Applicants are required to submit official transcripts from all post-secondary institutions attended. If you are currently attending another post-secondary institution, you must submit an official transcript at the time of your application. Should you have courses in progress, you will be required to submit a final official transcript at completion. You are not required to submit your TRU transcript.

Option to submit transcripts by mail: Official transcripts can be mailed directly from the school in a sealed envelope to:

**Thompson Rivers University  
Enrolment Services  
805 TRU Way  
Kamloops, BC V2C 0C8**

3. Submit additional required supplementary documentation to Admissions. Documents emailed to [tradesadmission@tru.ca](mailto:tradesadmission@tru.ca) must be in PDF format. Include your TRU ID number in the subject line.

## NEXT STEPS

We will contact you within 5 working days to confirm receipt of your application. You will then be able to review your application status and document receipt on [myTRU](#). Please allow 3-5 days from submission of your documentation for the receipt date to be reflected on your account.

## NEED HELP?

### [Contact Us](#)

Enrolment Services – Admissions & Registration  
Old Main, Student Street  
Phone: 250-828-5046  
Email: [tradesadmission@tru.ca](mailto:tradesadmission@tru.ca)

Industry Training Authority  
[www.itabc.ca](http://www.itabc.ca)  
Phone: 1-866-660-6011