

# PIPING TRADES PROGRAM

## Foundation Training for Secondary School Students

Hosted by School District No. 73 and Thompson Rivers University

### Program Description:

This trade entry program was developed by industry representatives and TRU instructors to ensure relevancy for today's market. All practical experience is gained on state-of-the-art equipment. Training topics include:

- Review of the BC Plumbing Code
- Use of Hand Tools and Power Tools
- Installation of Plumbing Fixtures
- Use of Copper, Cast Iron, and Plastic Piping Materials
- Basics of Pipe Fitting
- Basics of Gas Fitting
- Basics of Steam Fitting
- Basics of Sprinkler Fitting & Irrigation Systems
- Basics of Hydronic Heating Systems
- Applications and Installation of Pumps
- Basic Blueprint Reading and Review of Basic Blueprint and Mechanical Symbols
- Installation of Drainage Systems
- Installation of Domestic Water Systems
- Basics of Estimating

This occupation is one in which employees must be able to work responsibly on their own, with minimal supervision. Good critical thinking skills for troubleshooting systems, the ability to work in cramped quarters and the ability to work in high places are extremely helpful in this industry.

### Job Opportunities:

This is one of BC's "top twenty" trades. Upon completion of the TRU Piping Trades Foundation Training Program, students find employment in companies where they can be indentured as an apprentice. Examples of potential employment include commercial and residential plumbing contractors, plumbing and heating wholesale or distribution companies. Upon obtaining journeyman certification, there is opportunity to start a business!

### Benefits of Participating in a SD 73/TRU-hosted Foundation Program:

- Early admission to post-secondary studies while still in secondary school
- **No post-secondary tuition fees while enrolled in a SD 73/TRU Foundation Program (a savings of over \$1,900).** Students are responsible for some program costs – see page 2 of the application for a list of estimated costs.
- Obtain twenty-four Grade 12 credits for your high school diploma, the TRU Plumbing Foundation Certificate and credit for Level One technical training of the Plumbing Apprenticeship, all in one semester (6 months)!
- Get a jump-start into a rewarding trade career!

### Who is Eligible to Apply for this Program?

- There are five (5) seats available for secondary school students for the Fall 2010 training option **plus** five (5) seats available for the Winter 2011 training option (subject to funding)
- Students must be born after September 30, 1991 to allow them to participate in post-secondary training during their Grade 12 school year
- Students attending a SD 27, SD 58, SD 73 or SD 74 Secondary School, who are currently in Grade 10, are eligible to apply prior to the **early application deadline of April 9, 2009**. Grade 10 students from other school districts should contact their school counsellor to discuss their eligibility. If approved by the local district, the student should then submit an application prior to the early application deadline to be eligible for selection for any seats remaining after the SD 27, SD 58, SD 73 and SD 74 seat assignments are completed.
- Applications received after the April 9, 2009 early application deadline will be assessed on a first-come-and-qualified, first-served basis. Qualifying students will be assigned to any remaining seats or added to the program waitlist.

# SD 73/TRU-Hosted Piping Trades Foundation

## What credentials can I earn with this program?

Upon completion of this program, the student will obtain the TRU Plumbing Foundation Certificate. With this certificate, the student may be granted up to full credit for the first year technical training in the Plumbing, Steam Fitting, Gas Fitting or Sprinkler Fitting Apprenticeship Programs. Also, the student may be granted credit for up to six months work experience, which can be applied to the 1405 hours of fieldwork experience required prior to entry into the second year of the apprenticeship program.

## What further training do I qualify for?

Upon becoming indentured as an apprentice, receiving ITA credit for first level apprenticeship technical training (see <http://www.itabc.ca/> for more info), and fulfilling the first level apprenticeship work experience requirement, the student will be eligible to enter the second level of apprenticeship training. Upon successful completion of the second, third and fourth levels of the apprenticeship program, the student will be eligible to write the inter-provincial exam to gain journey person certification.

## How do I Apply?

Application forms and brochures are available via the SD 73/TRU Transitions Webpage:

[www.tru.ca/trades/transition](http://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: [ljmatthews@tru.ca](mailto:ljmatthews@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 SD 73/TRU application)
- All sections of the SD 73/TRU 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:

- A full Grade 10 background (no failed core courses)
- Students will successfully complete all Grade 11 and 12 core courses during their Grade 11 school year
- Students will successfully complete all Grade 11 and 12 core courses during their Grade 11 school year
  - It is strongly recommended that a student obtain a minimum C average in:
    - Applications or Principles of Math 11  
*see last page of this brochure for more details regarding Math options*
    - English 12 or Communications 12
- Student will ensure all Grade 10 and 11 report cards & attendance records are faxed to the SD 73/TRU Transitions office, attn: Leslie Matthews, (250) 828-5492, as soon as they are available.
- Student must write the Accuplacer Exam by March 11, 2010 and must obtain a successful placement no less than 30 days prior to start of training.

# SD 73/TRU-Hosted Piping Foundation Trades Training

## Two-Year Training Schedule:

### September 2009 – June 2010:

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

### By March 12, 2010:

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

### Spring 2010:

- IF Accuplacer scores are not acceptable, student has the option to take the necessary Math or English upgrading courses during the spring of 2010 – student must commit in writing to this upgrading by April 17, 2010 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 30 days prior to the start of Post Secondary training.

### June 2010 (Option 1) or January 2011 (Option 2):

- Prior to the start of post-secondary training, student and parent/guardian must attend the Piping Trades 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, manuals, calculator, etc.)
- Student will be required to pay the TRU \$25 application fee at this time – see page 2 of the SD 73/TRU application for more details on program costs that the student must be responsible to pay.

### Option 1 – Fall 2010 Training – 5 seats available (subject to funding)

- **August 2010 – February 2011:** Complete SD 73/TRU-hosted Piping Trades 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 Plumbing Trade Entry Certificate
- **February – June 2011:** 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 high school counselor - see Summer 2011 plan and get a head start on your apprenticeship work experience hours!)

### Option 2 – Winter 2011 Training –5 seats available (subject to funding)

- **September 2010 – January 2011:** Complete 4 Grade 11/12 courses of your choice at your secondary school
- **February – August 2011:** Complete the SD 73/TRU-hosted Piping Trades Foundation program at TRU Kamloops (student is responsible for transportation/accommodations costs)
- Student will receive 24 Grade 12 credits upon completion of the TRU Plumbing Foundation Certificate

### Summer 2011

Find an employer who will hire and indenture you as their Piping Trade apprentice, submit a copy of your TRU Plumbing Foundation Certificate with your apprenticeship application to the Industry Training Authority, and request confirmation from the ITA that they will grant you credit for the first level of technical training for a Piping Trades apprenticeship.

**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.**

# Entrance Requirements for SD 73/TRU–Hosted Piping Trades - Foundation Program

*“bridging secondary and post-secondary education”*

The TRU Construction Trades Faculty has set the entrance requirements for secondary school students who are applying for any of the 2009 SD 73/TRU-hosted construction trade Foundation programs. The following information provides details of these requirements:

- **Accuplacer Exam:**

Applicants for all 2009 SD 73/TRU hosted Construction Foundation programs must write the Accuplacer exam. For the Piping Trades program, applicants must obtain the minimum placement level on the Accuplacer exam, as indicated below.

- **Writing the Accuplacer Exam:**

Applicants will write the Accuplacer exam by March 11, 2010. Students write the Accuplacer exam at the TRU Assessment Centre. Booking is done through the TRU Assessment Centre Coordinator, Cindy James - phone: (250) 828-5471 or email [cjames@tru.ca](mailto:cjames@tru.ca). Applicants are responsible for the Accuplacer exam fee (currently \$30). Detailed information about Accuplacer testing at TRU is available on the TRU Assessment Centre website at:

[www.tru.ca/staffairs/assmnt/testservice/accuplacer](http://www.tru.ca/staffairs/assmnt/testservice/accuplacer)

## SD 73/TRU-hosted Piping Trades Foundation Entrance Standards

| Required Placements for the Accuplacer Exam: | Math | English |
|--|------|---------|
| Piping Trades/Plumbing                       | 050  | 060     |

*(050 is approximately equivalent to Grade 11, 060 is approximately equivalent to Grade 12)*

- **Math Requirement:**

- **Applications of Math 11 or Principles of Math 11 are strongly recommended** for these programs.
- Essentials of Math 11 will be accepted under the following conditions:
  - The student should obtain a **minimum 65%** final mark for Essentials of Math 11 **plus** obtain a minimum 60% average for all other Grade 11 & 12 core courses.
  - The student must obtain a minimum 050 Math placement on the Accuplacer exam

- **Grade 12 Requirement:**

Applicants must complete all Grade 11 and 12 core courses required for graduation prior to starting their post secondary training.

**Note:** Effective April 10, 2009, any remaining seats for the 2009 SD 73/TRU-hosted Foundation programs will be assigned on a first-come-and-qualified, first-served basis... so completed applications should be submitted to SD 73/TRU Transitions, attn: Leslie Matthews (250) 828-5109 fax 828-5492, ASAP!

## **Plumbing Foundation Training Tool Box**

TRU's Plumbing/Pipefitting Foundation Program requires the students to purchase their own tools for this program. The TRU Trades department has the Plumbing Tool Boxes pre-packaged for the student's convenience. A student may purchase their tools before class starts at the Tool Room (room TT252) located in the Trades building or during the first three days of the program. Be prepared to make this arrangement with the instructor during this time.

The cost of the tool box is approximately \$350.00 including taxes and will consist of the following tools: *(note: price subject to change)*

- 21" Metal tool box with tray and lock
- 7 piece Punch and Chisel set with case
- Bahco Hacksaw with bi-metal blade
- 20 oz. Claw Hammer
- 3 Adjustable Wrenches (8, 10, and 12 inch)
- 3 Channel Lock Pliers (8, 10, and 12 inch)
- 10 piece screw driver set (4 Slot, 4 Robertson, 2 Phillips)
- Safety Glasses
- Nut Driver 5/16"
- Tape Measure (8M/26Ft)
- Torpedo Level 9"
- Combination Square
- 11 piece Combination Wrench Set SAE with case
- Utility Knife
- Hex Key set SAE
- Plastic Pipe Cutter
- Tin Snips