

## Winter 2012

Thompson Rivers University  
School of Trades and Technology  
900 McGill Road  
Kamloops, BC V2C 0C8  
Ph: (250) 371-5658 Fax: (250) 828-5492 E-mail: [trades@tru.ca](mailto:trades@tru.ca)

Students **must supply** safety glasses and steel-toed boots for **all** shop classes

### Carpentry

#### Carpentry “Red-Seal” Exam Preparation Course (XCRP 0710)

February 10 – March 17 Fri 6:00 – 9:00 pm, Sat 8:00 am – 3:30 pm \$795 (60 hrs)

This course is designed to assist carpenters wishing to challenge the “Red Seal” exam. In order to attempt the exam, written proof of at least 9720 direct hours of work 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. For more information and to pre-register, please call (250) 371-5658 or e-mail [trades@tru.ca](mailto:trades@tru.ca).

### Driver Training

#### Certified ICBC Air Brake Course (XDRV 0610)

All classes are: Fri 6– 10 pm, Sa/Su 8am–5 pm \$175 (20 hrs)

*Please choose one:*

- February 3 - 5
- February 17 - 19
- March 2 – 4
- March 16 - 18
- March 30 – April 1
- April 13 – 15
- April 27 - 25
- May 11 - 13

This course is designed to prepare students for the ICBC written examination for an air endorsement to operate air brake equipped highway vehicles. Students must have a valid BC driver’s license. Course fee includes the ICBC certified practical exam.

#### Class 1, 2, & 3 Driver Training

Thinking of a new career or upgrading your driving skills? We offer a wide range of customized commercial driver training programs, as well as job placement and student financing. For more information contact Ray Trenholm at (250) 828-5104 or (250) 371-5817

<b>Forklift Operator Certification</b>		<b>XDRV 0500</b>
February 25	Sat 8 am – 4 pm	\$225 (includes text) (8 hrs)
March 31	Sat 8 am – 4 pm	\$225 (includes text) (8 hrs)
May 5	Sat 8 am – 4 pm	\$225 (includes text) (8 hrs)

This course is designed to provide students with a certification of training that meets Worksafe BC Recognition Program criteria. Students must have a minimum of 15 hours of forklift experience. This course is not for beginners.

Call (250) 371-5658 for more information on:

- Boom Truck Training
- Mobile Crane Training
- Rigging
- Heavy Equipment Operation and Assessment
- Driver Assessment and Collision Avoidance

### **Electrical and Electronics**

#### **Application of Electrical Codes and Standards (XELC 0630)**

March 27 – May 31 T/Th 6:00 – 9:00 pm, \$795 (texts & exam extra) (60 hrs)

**New 2012 Canadian Electrical Code Book course.** This course is designed for qualified electricians who may want to write the Safety Authority provincial exam to attain their Field Site 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.

Instructor: Mark Evans (Electrical Apprenticeship Instructor at TRU)  
 Phone and Voicemail - 250.377.6090  
 Email: mevans@tru.ca

Required Texts: 2012 Canadian Electrical Code Book *(Please purchase the 2012 Canadian Electrical Code Book prior to the start of the course. They are available at local electrical wholesalers, TRU bookstore, retail bookstores or through CSA.)*

Required Course Materials:

- 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

For more information, please contact Heather Hamilton, Course Coordinator, at 250.371.5658, or email [hhamilton@tru.ca](mailto:hhamilton@tru.ca).

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

February 24 - March 10      Fri 6:30-9:30 pm, Sat 8:00 am – 3:30 pm      \$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 may also include GE and Modicon brands. Please call for further information (250) 371-5658 or e-mail [trades@tru.ca](mailto:trades@tru.ca).

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

April 20 – May 12      Fri 6:30-9:30 pm, Sat 8:00 am – 3:30 pm      \$775 (40 hrs)

This course is an extension of the PLC Level 1 course and is directed towards individuals that have a basic knowledge of Programmable Logic Controllers and are able to design circuits that use standard instructions such as timers and counters. This course moves onto more advanced instructions that include math, compare, move, program control and several other instructions found in industrial applications. The student will be challenged to create PLC programs that operate on a conveyor system as well as an analog liquid level control systems. In addition, the student will get an introduction into the InTouch® HMI software with the intent to operate lab equipment. To preregister call (250) 371-5658 or e-mail [trades@tru.ca](mailto:trades@tru.ca).

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

On-Line Delivery or Classroom Session Available      \$795 (60 hrs)

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. For more information and to pre-register, please call (250) 371-5658 or e-mail [trades@tru.ca](mailto:trades@tru.ca).

## **Heavy Construction**

### **Heavy Equipment Operator Challenge Exam Preparation Courses (XMEC 0730)**

February 10 – March 3      Fri 6:30 – 9:30 pm, Sat 8:00 am – 3:30 pm      \$545 (test and texts extra)

This classroom course is designed to assist heavy equipment operators wanting to challenge the Industry Training Authority HEO exam. In order to attempt the exam, written proof of direct work 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. For more information and to pre-register, please call (250) 371-5658.

## **Mechanical**

### **Commercial Vehicle Inspection Program (XDRV 0630)**

April 20 - 22      Fri 6–10 pm, Sa/Su 8:00 am–5:00 pm \$395 (incl. all texts & manual)

All mechanics involved in auto and commercial vehicle inspections must have successfully completed a training program and the provincial exam. Prerequisite: TQ or an I/P in Automotive, Heavy Duty or Commercial Transport.

**CFC/HCFC/HFC Control (XENV 0500)**

May 11 - 12 6:00-10:00 pm, 8 - 10 am Fri/Sat \$160 (incl text and exam)

Upon successful completion, students will receive an Environment Canada's certificate as well as a certificate number for refrigerant handling.

**Vehicle Air Conditioning Repair & CFC/HCFC/HFC Control (XATO 0730)**

May 11 - 12 Fri 6-10 pm, Sat 8 am-5 pm \$295 (incl all texts and exam)

This course will cover the following topics for air conditioning systems in vehicles: principles of heat, basic air conditioning systems (all products including heavy duty equipment), components and their function, system services and repair of disabled systems. Upon successful completion, students will also receive an Environment Canada's certificate as well as a certificate number for refrigerant handling.

**Heavy Duty "Red-Seal" Enhanced Assessment**

The Industry Training Authority of BC is offering a new enhanced assessment allowing qualified challengers new ways to demonstrate their skills, beyond the written exam, while maintaining the high standards we expect for trades certification in British Columbia. Challengers must have a minimum of 9000 of direct heavy duty mechanics experience. Call (250) 371-5658 for more information.

**Commercial Transport "Red-Seal" Exam Preparation Courses (XMEC 0490)**

Continuous Entry

This distance course is designed to assist commercial transport mechanics wanting to challenge the "Red Seal" exam. In order to attempt the exam, written proof of 8910 hours of direct work 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. For more information and to pre-register, please call (250) 371-5658.

## Piping

**Cross Connection Certification Course (XGAS 0640)**

June 4 - 9 Mon - Fri 8 am - 2 pm, Sat 8 am - 3 pm (exam) \$795 (plus BCWWA exam fee)  
- incl. text (25 hrs)

This 25 hour course instructs eligible students on the principles and controls combined with testing of backflow prevention devices. Upon successful completion of the BCWWA theory and device exam, students will obtain their Cross Connection Control Certification.

**Cross Connection Recertification Course (XGAS 0650)**

June 4, 5, 6 & June 7 Mon - Thur 6pm - 9 pm, (12 hrs), Sat 8 am - 3 pm (exam) (6 hrs)  
Tuition: \$525 (plus BCWWA exam fee) - incl. text

This exam preparation course is for students who are BCWWA certified in Cross Connection Control but are due for recertification. Review of current testing procedures, introduction to the new reference materials, local bylaws and plumbing code will be covered.

### **Cross Connection Control Testing Only (XGAS 0680)**

June 9 Sat 8 am – 3 pm (6 hrs)

Tuition: \$165 (plus BCWWA exam fee)

## **Welding**

Students are required to supply CSA safety boots, welding gloves, and welding caps. Welding helmet will be provided by TRU.

### **Introduction to Gas Metal Arc Welding (MIG) (XWLD 0510)**

February 20 – March 14 7– 10 pm, Mon/Wed \$335 (24 hrs)

Gain skills in GMAW (MIG) wire feed welding. Several different types of wires and shielding gasses will be utilized in a variety of welding positions. Cutting and fitting of joints will be stressed, with the opportunity to plan and begin a small project. Participants are encouraged to bring their home welders.

### **Introduction Gas Tungsten Arc Welding (TIG) (XWLD 0530)**

April 3 – 26 7–10 pm, Tues/Thurs \$365 (24 hrs)

This course is designed to allow the participants to gain skills in GTAW (TIG) welding. Several different types of filler rods will be used to TIG weld. Steel, stainless steel and aluminum will be utilized in a variety of welding positions.

### **Welding Upgrading (XWLD 0410) and Welder Testing (XWLD 0430)**

The School of Trades and Technology is a licensed testing agency for the Boiler and Pressure Vessel Safety Branch and the Canadian Welding Bureau, providing welding testing and certification for certified company and union authorized CWB testing. We also offer a Welding Upgrading program that gives students practice and instruction in specific welding procedures which leads to further weld tests and certifications under CWB or ASME. For more information, call (250) 828-5105.

## **Water and Wastewater Treatment Programs and Courses**

TRU has comprehensive industry relevant programs and courses related to all aspects of water and wastewater treatment. Programs and courses are available in the classroom, on-line and blended models utilizing Kamloops' premier water treatment facility.

- Water Treatment Technology Program
- First Nations Training
- Small Water Systems
- Certificate for Water and Wastewater Utilities
- Onsite Wastewater Training
- Water Education for Industry

**WaterSafe WTTP 020**

Online & Print Format, Continuous Intake \$140.00 (6 hrs)

An introductory course for owners and operators of small water systems (campsite operators, Parks, ranches, administrators, water equipment vendors, people with backyard swimming pools etc.) that provides owners and operators access to up-to-date, practical information on the safe delivery of drinking water by small water systems. TRU WaterSafe Certificate awarded on completion of a qualifying exam.

For more information, contact Satwinder Paul @ (250) 371-5955. Courses held at the Kamloops Water Treatment Centre.

**Industry Training**

The School of Trades and Technology is experienced in bringing industry relevant and innovative training to the job site with our state of the art mobile training lab or here at TRU, utilizing our modern classrooms, shops and labs.

We are able to develop and deliver cost effective and flexible training to meet employer's specific requirements. Give us a call, we would be pleased to help you with all your company's training need