

Archived: September 2, 2016

## Trades and Applied Technology Programs

# Refrigeration Air-Conditioning Mechanic

**Location Offered:**

Cowichan

**Credential:**

Certificate

**Options:**

Apprenticeship

**Program Length:**

10 Months

## The Program

Refrigeration Air-Conditioning Mechanic - Program requirements prior to April 2015

This program, offered at the Cowichan Trades Centre, prepares individuals for entry into the Refrigeration and Air Conditioning industry service sector. The program provides a solid foundation in the fundamentals of installing, servicing, and troubleshooting all aspects of residential commercial and industrial heating, ventilation, air-conditioning and refrigeration (HVAC/R) equipment, as well as customer relations.

Classroom instruction is combined with hands-on practical assignments and sophisticated computer-based instruction. On successful completion, students will receive a Vancouver Island University certificate, CFC handling certification from Environment Canada and the Province of British Columbia.

Maturity, good hand/eye coordination and problem solving skills with attention to detail are desirable qualities for individuals pursuing careers in Refrigeration and Air Conditioning. An opportunity for work experience is included in the program. *Check with the Advising Centre for more details **250-746-3509** (Cowichan Campus).*

## Program Outline

| <b>Refrigeration Air-Conditioning Mechanic</b>     | <b>Credits</b> |
|--|----------------|
| HVAC 130T - (Essential Workplace Skills)           | 3              |
| HVAC 131T - (Tools and Equipment)                  | 3              |
| HVAC 132T - (Refrigeration Fundamentals Level 1)   | 3              |
| HVAC 133T - (Electrical Fundamentals Level 1 & 2)  | 3              |
| HVAC 134T - (Heating Fundamentals Level 1)         | 2              |
| HVAC 135T - (Commercial Refrigeration Level 1 & 2) | 3              |
| HVAC 136T - (Comfort Cooling Level 1 & 2)          | 3              |
| HVAC 137T - (Work Experience)                      | 1.5            |
| HVAC 138T - (Heat Pumps Level 2)                   | 3              |
| HVAC 139T - (Emerging Technologies Capstone)       | 1.5            |
| HVAC 140T - (Systems Analysis)                     | 2              |
| HVAC 141T - (Advanced Controls Level 2)            | 2              |
| <b>Total Credits</b>                               | <b>30</b>      |

*All program courses must be successfully completed before certificates will be issued.*

## **Admission Requirements**

- Grade 12, or equivalent, or mature student status.
- Physically fit and good hand-eye coordination.
- Successful completion of assessment testing.
- Personal profile.
- A criminal record check is required.
- See also Trades general admission requirements.

## **Career Opportunities**

Graduates may find employment and apprenticeship opportunities with air-conditioning companies, heating contractors. They may also seek employment in building systems maintenance, wholesale and retail sales, controls and instrumentation, equipment manufacturers, and installation and service of equipment.

## **Work Placement Opportunities**

### **Apprenticeship Information**

Graduates of this program may receive credit towards the technical portion of the first and second year of the Refrigeration Mechanic Apprenticeship program. In order to complete the apprenticeship and become a journeyman, in addition to on-the-job training, graduates would return to school for 8 weeks in Levels 3 and 4. Level 2 is now offered in Duncan at VIU's Cowichan campus.

The Refrigeration Mechanic Apprenticeship program consists of 5 years of on-the-job experience combined with 4 levels of in-school technical training in order to be eligible to write the Interprovincial (Red Seal) Examination for journeyman certification.

For more information on apprenticeship training, please visit the website at [www.itabc.ca](http://www.itabc.ca), contact the Industry Training Centre at 1-866-660-6011, or call Tanya Reiber at Vancouver Island University toll-free at 1-888-920-2221 local 6112.

## **Start Date and Application Deadline**

Applications are accepted on an ongoing basis. For further information regarding next available program start dates, applications, and program contacts check the Program Availability List.

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