

Refrigeration and Air Conditioning Mechanic

School District Dual Credit Program 2019 - 2020

This 25-week (750 hours) program is designed to take a student with little or no previous experience in the heating, air conditioning and refrigeration industry and supply the student with the necessary skills to seek employment in that industry as an apprentice. It also provides a solid foundation in the fundamentals of installing, servicing, and troubleshooting all aspects of heating, ventilating and air conditioning/refrigeration equipment.

Career Opportunities

Appliance Dealerships; Gas and Electric Utility Companies; owners of Rented Commercial Appliance Service Companies; Department Stores; and, Appliance Manufacturer's own Service Departments; and, some choose to run their own businesses. For more information on Refrigeration and Air Conditioning employment opportunities:

WorkBC – www.workbc.ca

ITA – www.itabc.ca

Program Outline

Completion of all courses in the program with a minimum grade of 70% in each.

RACM 100 Application of Trades Math for the Refrigeration Mechanic Trade

RACM 101 Safety Techniques

RACM 102 Welding and Brazing Techniques

RACM 103 Basic Work Skills

RACM 104 Application of Drafting Skills

RACM 105 Use of Tools

RACM 106 Application of Computers

RACM 107 Basic Electrical Concepts

RACM 108 Electrical Wiring Schematics

RACM 109 Single-Phase Motor Theory

RACM 110 Piping Practices

RACM 111 Fundamentals of Refrigeration

RACM 112 Refrigeration Systems Cycles

RACM 113 Refrigeration System Components

RACM 114 Final Exam



Tuition*

Tuition for dual credit programs may be paid in part or fully by the school district. Secondary school students will be registered as an Okanagan College student and will be responsible to pay for books, tools, material and ancillary fees.

- Tuition: \$2,859.25
- Ancillary Fees: \$630.85
- Health and Dental: \$125.70 (can be waived if you have an existing plan)
- Textbooks: \$1,617.90

*All program costs are approximate and subject to change without notice

Program Schedule

Program duration: Kelowna: 25 weeks; Regional: 24 weeks

Start Date: February 3, 2020

End Date: July 24, 2020

Monday to Wednesday, 8:00 AM to 3:00 PM

Location

Penticton Campus, 583 Duncan Avenue West, Penticton, BC

Student for a Day

Arrange your shop tour or Student for a Day experience by contacting your school Career Counselor.



Credentials Received

Graduates of this program may receive credit for Level 1 apprenticeship technical training and may also be granted practical credit from the Industry Training Authority. In order to complete the apprenticeship and become a journey person, graduates would return to school to complete Level 2 (six weeks), Level 3 (eight weeks) and Level 4 (eight weeks)

Physical Requirements

- Lift and carry tools, equipment, supplies and materials weighing up to approximately 30 lbs.
- Lift, carry, hold and operate hand, air and power tools from below grade to above shoulders
- Stand on concrete, dirt, rock, asphalt, wood, etc. for extended periods of time
- Bend, stoop, kneel, crawl to perform tasks
- Work in confining environments
- Work in both indoor and outdoor venues, through all seasonal challenges
- Push/pull and carry pipe, tubing and construction materials
- Climb extension ladders, and work on scaffolding at heights

Recommendations for Success

- Good general health and respiratory condition
- Capable of doing physical work
- Physical strength and stamina compatible with the handling of heavy equipment and materials
- Ability to tolerate noise and vibration
- Balance and coordination to walk on uneven ground for up to 8 hours per day
- Good manual dexterity
- Good hand-eye coordination
- Satisfactory eyesight, line, form and depth perception



Sponsorship Requirements for School District Students

- Attend "Student for a Day" at Okanagan College in the program of interest
- Complete the School District application package and hand it into your Career Programs Coordinator
- Successfully pass the School District entrance criteria for English and Math (ABLE Tests)
- Be on track to graduate with a Dogwood diploma
- Meet with parents and Career Coordinator to review program and school district expectations
- Okanagan College course requirements/admission requirements met for program
- Application approved and accepted by School District
- An interview may be required for potential applicants

Focus on Safety

Okanagan College is committed to providing a safe learning environment for students. All students are responsible for:

- Knowing safe work procedures in classroom, shop, and work areas.
- Following the safety standards as taught by the instructor. These standards meet or exceed the regulatory requirements of the WorkSafe BC Occupational Health and Safety Regulation.

Failure to do so may result in suspension from the program. Each student is expected to report any unsafe condition or unsafe behavior to his/her instructor.

CONTACTS:

Applications are available at your school Career Centre or www.dualcredit23.com



Bob Boback, Dual Credit Coordinator

Bob.boback@sd23.bc.ca

Rochelle Schulz, Administrative Assistant

Rochelle.schulz@sd23.bc.ca