

Real Life

**TRADES &
APPRENTICESHIP**



KELOWNA CAMPUS

The tools for **your**



PENTICTON




SALMON ARM



VERNON





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future are here

okanagan.bc.ca/trades

**TRADES &
APPRENTICESHIP**

Discover Trades

EVERYTHING YOU NEED FOR A SUCCESSFUL CAREER

For more than **50 years**, Okanagan College has been the region's leading trades trainer.

Learn from our highly skilled instructors and gain hands-on experience with the latest equipment and technologies in our state-of-the-art facilities located throughout the Okanagan. Experience the benefits of small class sizes and programs with provincial, national and international recognition.



GET THE FOUNDATION YOU NEED

No experience? No problem. Foundation programs provide students with pre-employment entry-level training and the basic knowledge and skills needed to enter into a particular trade. Most foundation program graduates receive credit for first level apprenticeship technical training that leads to employment.



EARN A RED SEAL

Apprenticeship technical training (Levels 1 through 4) at Okanagan College combines traditional classroom instruction with practical hands-on experience in well-equipped shops and labs. The interprovincial endorsement you receive will give you employment mobility across Canada as a recognized journeyman in your trade.



WHY A CAREER IN TRADES?

BE IN-DEMAND

Canada's productivity depends on the highly specialized expertise of tradespeople.

EARN WHILE YOU LEARN

Apprenticeship programs give you the opportunity to combine classroom training at Okanagan College with work-based learning with an employer.

SEE RESULTS

Take satisfaction in seeing the immediate results of what you've put into a workday.

REAP THE REWARDS

Trades employment often rewards with above average wages.

FLEX YOUR MUSCLES AND YOUR MIND

Tradespeople work with their hands and need dexterity, good hand-eye coordination and physical stamina. They also require creativity and strong skills in reading, writing, math and science.

1M JOBS

The B.C. government projects there will be one million job openings across the province by 2022, and 43 per cent of those will require skills you can acquire with training from Okanagan College

97% of students from traditional apprenticeship programs are employed after graduation*

93% of students said the knowledge and skills they learned were useful for employment*

\$1 million More than \$1 million worth of financial aid and student awards is available

7,500 Meet friends and build networks with more than 7,500 full-time-equivalent students at four campuses

(*2015 Student Outcomes Survey, Okanagan College apprenticeship students)

Aircraft Maintenance

TAKE FLIGHT

MAINTENANCE

Stand behind every safe landing with a career as an Aircraft Maintenance Engineer. With a 9:1 student-to-instructor ratio in the program, you'll get the attention and hands-on industry experience needed for a career where you will be responsible for the maintenance and flight-readiness of aircraft.

Learn aviation law, theory of flight, air frame structures and systems, hydraulics, electrical and avionics systems. Your high attention to detail will be an asset to maintain, repair, overhaul, modify and test aircraft structural, mechanical and hydraulic systems on both rotary-wing and fixed-wing aircraft.

Okanagan College partners with Northern Lights College Aerospace Centre in Dawson Creek for the final 14 weeks of the program.

STRUCTURES

Aircraft Structures Technicians are an integral part of aviation teams and are responsible for the assessment, planning and implementation of aircraft structural fabrication and repairs.

You'll feel like you are already in the industry the moment you step into the classroom at our Kelowna International Airport hangar. This program will utilize your object-oriented abilities to teach you the practical skills of assessing structural damage and how to make repairs and modifications. Learn the theory behind the aircraft, including aerodynamics, aircraft components, system and structures and design and construction.

Program graduates go on to complete Transport Canada's work experience and exam to qualify for their AME M or S License (recognized internationally).

PROGRAM OPTIONS:

Maintenance M-License

62 weeks (Vernon Aerospace Campus and Northern Lights College)

Structures S-License

37 weeks (Kelowna Aerospace Campus at Kelowna International Airport)

CAREER PATHS:

Structural

- Aircraft Assembler
- Aircraft Structures Technician
- Aircraft Structures Supervisor, Inspector or Instructor

Engineering



CAREER PATHS:

Mechanical

- Aircraft Mechanic
- Line or Field Maintenance Engineer
- Quality Insurance Inspector

"The program allowed me to make the most out of my education. For a small investment I'll have a job for life and opportunities to travel all over the world for the foreseeable future."

– Jason Stratford, Aircraft Maintenance Engineer, KF Aerospace, AME-M program graduate, Transport Canada M License M2 Rating with 737 Next Generation Endorsement



Welding

TURN UP THE HEAT

WELDING FOUNDATION

Get the training that opens the doors to employment. Using fusion, pressure, heat and strength, you'll learn a diverse set of processes to cut, join and repair metals, including oxy acetylene, shielded metal arc, gas metal arc, flux core arc and gas tungsten arc welding. Your dexterity, exceptional hand-eye coordination and artistry will guide the fabrication and sculptural process as you develop technical skills in drafting, math, measurement systems and metallurgy.

With a Red Seal Endorsement, your skills will be recognized worldwide, and this portable trade can take you from the top of a skyscraper, to the oil fields, to the depths of the sea.

METAL FABRICATOR

Imagine having the specialized training to build something as large as a container ship or as simple as a swiveling chair. Metal Fabricators come to the rescue when tradespeople need a specialized part or component custom-built, regardless of how large or small.

Our professional instructors will prepare you for the workforce with technical training in blueprint reading, mathematics, units of measurement and effective communication. Learn the skills and techniques to create and join metal components, including cutting, sawing, grinding, punching, fitting, bolting and welding.



PROGRAM OPTIONS:



FOUNDATION

Welding Foundation – 28 weeks
Metal Fabricator (Fitter) – 23 weeks



APPRENTICESHIP

Welder – 3 years

ENDORSEMENT

Multi-Process Alloy Welding – 5 weeks

CAREER PATHS:

- Iron Worker
- Pipe Fitter
- Boilermaker
- Maintenance Welder
- Welding Inspector
- Metal Fabricator
- Rig Welder

Automotive Collision Repair

PURSUE PERFECTION

Whether it's the restoration of classic cars, simple dent or scratch removals or the complete makeover of major fender benders, the expertise of our instructors and state-of-the-art tools and equipment provide the skills, knowledge and abilities that employers are seeking.

Get hands-on training in our production-oriented flowing shops that simulate workplace environments. This program emphasizes the first and most important steps to a quality repair. Using your visual perception and problem-solving skills, you'll gain confidence and quality experience in repairing and restoring damaged car and truck body parts, interior finishing, repainting surfaces, and the repair and replacement of automotive glass.



PROGRAM OPTIONS:

FOUNDATION

Collision Repair/Refinishing Prep Technician – 38 weeks



APPRENTICESHIP

Automotive Glass Technician*
Automotive Refinishing Prep*
Motor Vehicle Body Repairer – 3 years
Automotive Painter – 2 years

* Certificate of Qualification

CAREER PATHS:

- Motor Vehicle Body Repairer
- Glass Technician
- Automotive Painter
- Insurance Estimator
- Car Restorer



Automotive Service Technician

REV IT UP

Every day is different in this fast-growing and technically advanced trade. We'll teach you the fundamental skills that people will trust with one of their most important assets – their vehicles.

Dismantle and reassemble vehicles as you learn to inspect, diagnose, maintain and repair mechanical, electrical and electronic system components of cars and light trucks including engine overhauls, transmission rebuilds and tune-ups. Working with sophisticated computerized vehicle systems, you'll gain an understanding of how to use technology to test, adjust and repair key vehicle components such as engines, steering systems, braking systems, drive trains, vehicle suspensions and electrical systems.

PROGRAM OPTIONS:



FOUNDATION

Automotive Service Technician – 30 weeks



APPRENTICESHIP

Automotive Service Technician – 4 years

CAREER PATHS:

- Dealership/Garage Mechanic
- Service Manager
- Warranty Administrator
- Parts Person
- Commercial Vehicle Inspector (CVSE)
- Service Consultant

Live here








Train here



Heavy Mechanical

THINK BIG

Get the skills that keep industry moving. Learn to diagnose, service and repair a variety of machinery including crawlers, excavators, highway tractors and trailers. Our instructors will use their years of expertise to teach you the theory behind brakes, hydraulics, engines, suspension and how to apply those skills to on-and-off highway vehicles in our recently upgraded shop and 1,858 square-metre outdoor training space. With two different apprenticeship options, your educational road is endless with opportunity.



"Since I was little, I loved taking things apart and figuring out how to put them back together. The experience you get in the classroom is all real-world. The instructors don't just teach you the technical skills, they teach you the work ethic you'll need to be successful in the industry."

— Rav Matharoo, Level 4 Heavy Duty Mechanic Journeyman at Cookson Motors

PROGRAM OPTIONS:



FOUNDATION

Heavy Mechanical – 38 weeks



APPRENTICESHIP

Heavy Duty Mechanic – 4 years

Truck and Transport Mechanic – 4 years

Transport Trailer Mechanic*

Diesel Engine Mechanic*

* Certificate of Qualification

CAREER PATHS:

- Transport Trailer Technician
- Truck and Transport Mechanic
- Heavy Duty Equipment Technician
- Parts Person
- Service Advisor



Recreational Vehicle

KNOW IT ALL

Learn all the trades in one trade – the RV Service Technician program provides the training and skills in more than 10 sub-trades used in the repair and maintenance of a modern RV, including electrical, plumbing, carpentry, joinery, refrigeration, gas fitting, welding and appliance repair.

Work on the exterior of vehicles from the top of ladders replacing roofs to small interior spaces fixing leaky faucets. Your critical thinking skills will be essential to troubleshooting mechanical, electrical and electronic issues including maintenance on appliances and battery systems. Strength and balance are required for fiberglass and body repairs, pinstriping and painting.

You'll be as mobile as the vehicles you work on, with certification that will give you opportunities to work across North America.

PROGRAM OPTIONS:



FOUNDATION

Recreation Vehicle Service Technician – 28 weeks



APPRENTICESHIP

Recreation Vehicle Service Technician – 3 years

CAREER PATHS:

- RV Service Technician
- Mobile RV Repair Technician
- Warranty Administrator
- Service Manager

A large, modern electrical training facility with students working on equipment. The room is filled with racks of electronic equipment, including oscilloscopes and signal generators. Students are seen working on the equipment, some standing and some sitting at desks. The room has a high ceiling with exposed ductwork and large windows on the right side. The overall atmosphere is one of a professional, hands-on learning environment.

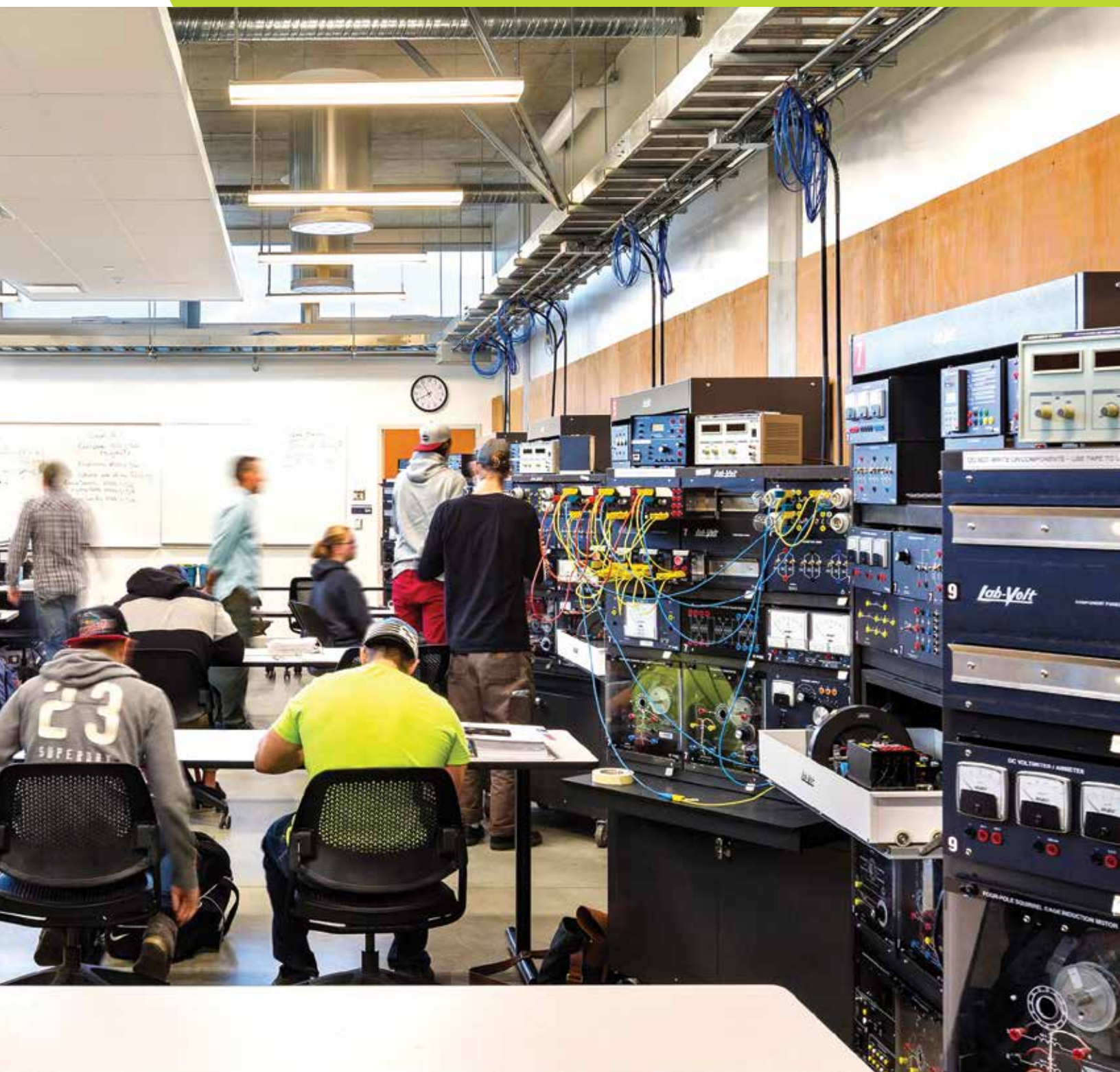
Electrician

PLUG IN

Knowledge is power in this trade that will challenge your muscles and your mind. Our foundation program covers the practical and theoretical skills you'll need for industry employment. You'll master principles of electricity, safe work practices, math and science concepts while getting hands-on experience in our leading-edge labs inspecting, maintaining and repairing highly sensitive electrical and electronic systems.

Pursue an apprenticeship path as a construction electrician and learn to 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. Or choose to gain a high level of expertise as an industrial electrician that you'll apply to the installation and service of motors, generators, heavy duty machines and other equipment.

Through use of the most modern digital learning processes and technologies, our flexible Electrician Apprenticeship Level I Blended Program delivers a combination of face-to-face training and online learning, to reduce the amount of time you'll be away from your workplace, home and family while maintaining the quality of instruction.



PROGRAM OPTIONS:



FOUNDATION

Electrician – 28 weeks



APPRENTICESHIP

Construction Electrician – 4 years
Industrial Electrician – 4 years

CAREER PATHS:

- Construction Electrician
- Industrial Electrician
 - Wood
 - Mining
 - Oil & Gas



“I love the challenge of starting with nothing and finishing with something I can be proud of. It’s rewarding to choose a trade where I can provide for my family and be able to show my kids something I’ve built.”

– Josiah Young, Level 4 Carpenter Apprentice with Al Stober Construction

Construction

BUILD YOUR FUTURE

CARPENTER JOINER

The hospital you were born in, the home you live in and the movie theatre you're heading to tonight — nearly every building and its interior wood finishes — exist because of a carpenter. Get the skills to build structures from the ground up and to craft the furniture and finishes to go into those structures. Learn the basics of carpentry and joinery, from designing and building concrete forms and wood-frame projects to using dovetail, finger and miter joints to create cabinetry.

CARPENTER FOUNDATION

Develop practical skills for the construction workplace in this program that introduces you to the use of hand tools, portable power tools and other equipment used by carpenters. Get hands-on experience with an array of common industry materials in the construction of a wood-frame project, including lumber, panel products, concrete, fasteners and hardware.

STUDIO WOODWORKING

Become immersed in a hands-on environment to develop your hand, machine and joinery skills while learning the history and theory of woodworking, design basics, marketing concepts and safe work practices. You'll use your artistry in advanced techniques such as curved parts, veneers, inlay, marquetry and banding, and have the opportunity to practice a variety of wood finishing techniques.

PROGRAM OPTIONS:



FOUNDATION

Carpenter Joiner – 30 weeks

Carpenter – 26 weeks

Studio Woodworking – 38 weeks



APPRENTICESHIP

Construction Craft Worker – 2 years

Carpenter – 4 years

CAREER PATHS:

- Carpenter
- Joiner (Cabinet Maker)
- Construction Craft Worker
- Site Superintendent
- Contractor
- Furniture Maker

Mechanical Building



ALL SYSTEMS GO

PLUMBING AND PIPING

Our Plumbing and Piping Trades program combines the curriculum for Plumbing, Domestic/Commercial, Industrial "B" Gasfitting, Pipefitting/Steamfitting and Sprinkler System Installer. Learn how to install, repair, test and maintain commercial, industrial and residential plumbing and piping systems that move liquids, chemicals and gases. You'll learn the basics of sprinkler system installations and working with propane and natural gas regulated products. Each trade utilizes similar skill sets and you'll get hands-on training applying those skills in on-the-job conditions in our shops.

REFRIGERATION AND AIR CONDITIONING MECHANIC

The program will teach you to install, maintain, repair and overhaul residential central air conditioning systems, commercial and industrial refrigeration and air conditioning systems, and combined heating, ventilation and cooling systems.

Trades

SHEET METAL WORKER

The Sheet Metal Worker program provides you with the skills to fabricate, assemble and install products made of durable and lightweight metals that become building siding, ventilation systems and almost anything else you can imagine. Your computer and mechanical skills will be put to the test in the operation of metalworking machines and cutting equipment. Manual dexterity and communication skills will be an asset to fitting and joining sheet metal parts in a variety of techniques.



PROGRAM OPTIONS:



FOUNDATION

Plumbing and Piping Trades – 25 weeks
Refrigeration and Air Conditioning
Mechanic – 25 weeks
Sheet Metal Worker – 20 weeks

PROGRAM OPTIONS:



APPRENTICESHIP

Domestic/Commercial Gas Fitter – 2 years
Steamfitter/Pipefitter – 4 years
Plumber – 4 years
Refrigeration and Air Conditioning
Mechanic – 4 years
Sheet Metal Worker – 4 years

CAREER PATHS:

- Steamfitter/Pipefitter
- Domestic/Commercial Gasfitter (Class B)
- Gasfitter (Class A)
- Refrigeration and Air Conditioning Mechanic

Women in Trades Training

A photograph of three women in a workshop setting. They are wearing safety glasses and working on projects. In the foreground, a woman with blonde hair tied back is focused on a task. Behind her, another woman is working on a similar project. To the left, a third woman is bent over a workbench. Several red toolboxes are visible on the workbenches, suggesting a trades training environment.

THE VALUE OF ONE, THE POWER OF MANY

Join the hundreds of women who have started successful careers in the skilled trades with sponsorship, support and resources of the Women in Trades Training (WITT) team.

Get practical and theoretical experience in the 12-week **Gateway to the Building Trades for Women**. Make an informed decision about your career path in this hands-on exploratory program that introduces women to a variety of trades.

WITT offers sponsorship opportunities for eligible and selected women who choose to further their education and earn credit for Level 1 technical training in a co-ed **Trades Foundation program**. You'll have all the help you need – our WITT team also provides referrals, certificate training, industry mentoring, tutoring and encouragement.

PROGRAM OPTIONS:

- Gateway to the Building Trades for Women
- Foundation programs

Wondering if you are eligible for WITT programs?

Talk to a Women in Trades Training program coordinator today at

1-877-755-2266 ext. 4825 or send us an email at wtti@okanagan.bc.ca



“I finished my program on a Friday, and started work on Monday. I’m proof that there are great opportunities out there, and the Women in Trades program is a great way of seizing those opportunities.”

– Sydney Frame, Aircraft Maintenance Engineer
Apprentice (Structures) – KF Aerospace





Specialty Programs

INDUSTRY TRAINING AND UPGRADING

From Cross Connection Control, FSR Voltage to Designated Inspection Facility Operator programs, we offer a variety of industry training and upgrading courses. Explore a full list of current course offerings online at okanagan.bc.ca/tradesupp.

WELDER TESTING AND UPGRADING

For welders looking to upgrade, improve their techniques or become proficient in special processes, Okanagan College is a recognized welder testing agency for the Ministry of Municipal Affairs, Boiler and Pressure Vessel Safety Branch.

Testing procedures are based on the standards established by the regulatory agencies and will be carried out by a Welding department representative. Learn more at okanagan.bc.ca/weldtesting.

INDUSTRY PARTNERSHIP PROGRAMS

Okanagan College partners with industry to provide workers with the skills they need to be competitive in the future. Our partnership with Taylor Pro Training Ltd., a recognized Industry Training Authority (ITA) trainer, offers students Class 1 Driver Training at their facilities. This experiential, full-time program covers the broad range of hands-on skills necessary to find employment as a transport truck driver and can be completed in just six weeks.

CHOOSE TRADES AT OKANAGAN COLLEGE

APPLY NOW

1. CHOOSE YOUR PROGRAM

Decide which program and campus interests you. For further information, check out www.okanagan.bc.ca/trades.

2. CHECK THE REQUIREMENTS

Please visit our website for individual program listings that include admission requirements to your program.

3. APPLY ONLINE

Submit your application to our foundation programs by visiting www.okanagan.bc.ca/trades.

Select your trade of choice and click on the "Apply Now" button.

If you are applying to the apprenticeship program, you will need to register with the Industry Training Authority (ITA) as an apprentice before applying to Okanagan College.

Following ITA registration, you can apply for your technical training online at www.okanagan.bc.ca/apprenticeship.

Programs have multiple start dates throughout the year. Please check the online schedule for program intake dates.

4. TRACK YOUR APPLICATION

Once you apply, you'll receive a student ID number and login information. See the status of your Foundation application and check on required documents through Okanagan College's intranet, myOkanagan. To find out the status of your apprenticeship application call 1-800-621-3038.

5. CONNECT WITH US

Staff from our admissions department will be in touch regarding your Foundation application via email. In the meantime, visit our website for current information about financial aid, student life, news, events, and more.

Connect with the College via Okanagan College's Facebook, Twitter, Instagram, YouTube and LinkedIn accounts.

EXPLORE YOUR OPTIONS – BE A STUDENT FOR A DAY

The best way to know if a school or a program is right for you is to experience it first hand. Let us show you why Okanagan College is the right fit for you. Try out the Student for a Day program where you can:

- Participate in the classroom
- Tour our workshops
- Ask questions and meet instructors and students
- Decide if a program is the right fit for you

To become a Student for a Day in one or more of our trades programs, contact our Trades office at 1-877-755-2266 or trades@okanagan.bc.ca



You belong here

Come experience one or all of Okanagan College's four campuses on a guided tour and see what it's like to be a trades student for a day.

FOUNDATION PROGRAMS

Phone: 250-862-5457
Toll Free: 1-800-621-3038
Email: trades@okanagan.bc.ca

APPRENTICESHIP PROGRAMS

Toll Free: 1-800-621-3038
Email: apprenticeship@okanagan.bc.ca

Programs offered at these campuses
Kelowna, Penticton, Salmon Arm, Vernon

www.okanagan.bc.ca/trades

