

# Welding

CERTIFICATE

## Why study welding?

You want your welding logbook and you want it fast to get that job you've got your eye on. Now is the time to invest in your future, earn your welding certificates, and get ready for some positive changes in your career.

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### WHY TAKE WELDING AT UFV?

At UFV, we can help you start your welding career, or help you upgrade your skills if you're already working as a welder. You will get a thorough introduction to the trade, and develop skills expected by employers. Our program is organized to accept both advanced and entry-level students within the same class. Most of your training will be individualized and is based on a modular program.

### I'M NOT YET WORKING IN THE WELDING TRADE. WILL THIS PROGRAM GET ME THERE?

Absolutely. UFV offers the best basic training for entry-level employment in a broad variety of welding, steel fabrication, and related jobs. Our curriculum is organized on the modular plan, which has been adopted by the provincial industry training authority. The particular modules you'll study in this course have been adopted as a result of priorities and recommendations of our local advisory committee. Our program will give you a thorough introduction to the trade and, through hands-on experience with a wide variety of equipment, you'll develop the skills expected by today's employers.



*“UFV’s instructors are very helpful and patient. Students get lots of one-on-one time with instructors.”*

— JENNIFER SCHMITZ,  
UFV graduate 2006,  
Welding level C.

# Welding



*“During the 20-plus years I have worked in the steel fabrication and welding industry in the Fraser Valley, I have been dealing with UFV’s Welding department. The students who have graduated from UFV’s trades programs are of a very high quality, well trained, safety conscious, and ready to start on the shop floor with little or no further training necessary. In short, UFV has a program that fits the industry’s needs and is dedicated to make it succeed.”*

— SCOTT MCGHEE, VP Manufacturing, TY-Crop Manufacturing.

## WHAT ABOUT ME? I’M STILL IN HIGH SCHOOL BUT KNOW THIS IS THE CAREER I WANT.

We have options for you, too! UFV and School District 34 (Abbotsford) operate a jointly sponsored Career Technical Centre. As a welding student, you can enter at the Grade 11 level and complete high school and a one-year UFV Level C Welding certificate over two years. In addition to being listed and signed off in the Welding Logbook, you will earn a UFV welding C certificate. For more information on this program, please call 604-850-8672.

## WHAT TYPE OF CAREER CAN I EXPECT?

That’s up to you and what you’re looking for. Once you’ve successfully completed the program, you will be fully prepared for a variety of job opportunities in metal-working industries including jobs such as production welder, maintenance welder, welder-fitter, welder-fabricator, etc.

## PROGRAM OUTLINE

### LEVEL C

COURSE #	TITLE
C-P-1	Introduction and Program Orientation
C-P-2	Oxyfuel Gas Cutting (OFC)
C-P-3	Gas Welding and Braze Welding
C-P-4	Shielded Metal Arc Welding (SMAW #1)
C-P-5	Air Carbon Arc Gouging (AAG)
C-P-6	Gas Metal Arc Welding #1 (GMAW #1) Flux Cored Arc Welding #1 (FCAW #1)
C-RK-1	Material Handling
C-RK-2A	Blueprint Reading #1
C-RK-2B	Mathematics
C-RK-3	Welding Metallurgy #1

## ADVANCED PROGRAMS

### LEVEL B

COURSE #	TITLE
B-P-7	Shielded Metal Arc Welding #2 (SMAW #2)
B-P-8	Gas Metal Arc Welding #2 (GMAW #2)
B-P-9	Flux Cored Arc Welding #2 (FCAW #2)
B-P-10	Gas Tungsten Arc Welding #1 (GTAW #1)
B-RK-4	Welding Quality Control and Inspection Standards
B-RK-5	Welding Codes, Standards, and Specifications
B-RK-6	Blueprint Reading #2
B-RK-7	Welding Metallurgy #2

### LEVEL A

COURSE #	TITLE
A-P-11	Shielded Metal Arc Welding (SMAW #3)
A-P-12	Gas Tungsten Arc Welding (GTAW #2)
A-RK-8	Welding Metallurgy #3
A-RK-9	Blueprint Reading #3

In addition to these topics, you will be required to practise layout and fabrication by completing a series of exercises and projects. If you study hard, you should be able to complete the entry-level training, including the fabrication exercises and projects, in about seven to nine months.

### ANYTHING ELSE I NEED TO KNOW?

Welding can be a physically demanding job and that's why a medical statement from a qualified physician may be required at any time before or during the program. You will be notified by a UFV official if or when that statement is required.

UFV's Welding program is delivered at the Trades and Technology Centre at the Canada Education Park in Chilliwack, which is open 8 a.m. to 4 p.m. weekdays. Classes and shops are in session 8 a.m. to 10:30 p.m.; this includes day and evening shifts. The program runs from September to May.

As a welding student, you will be required to have continuous attendance throughout all three semesters before you can successfully complete the requirements for your program. If you fail to meet the attendance requirements as outlined in your individual program guide, you might be subject to a failing grade or academic warning. See UFV Policy 340.03 (Academic Warning) and UFV Policy 310.03 (Attendance).

As a welding student, you must complete all requirements with a minimum of 70 per cent to receive a Credit (CR) grade in order to graduate.

### SOUNDS GOOD. WHAT DO I NEED TO GET IN?

You'll need your B.C. secondary school graduation or equivalent and must pass a math and reading comprehension entrance exam.

### WHEN SHOULD I APPLY?

Apply right away. Applications are accepted on a continuous basis throughout the year. Qualified applicants are considered for the next intake that has space.

To determine when the next intake occurs, call the Trades and Technology centre at 604-847-5448, or 1-888-504-7441, ext. 5448, or email [trades@ufv.ca](mailto:trades@ufv.ca) to get more details.

### I'M INTERESTED. WHAT DO I DO NEXT?

Check out UFV's online calendar at [www.ufv.ca/calendar](http://www.ufv.ca/calendar). Read the welding section and program description carefully and if you wish to speak to an instructor call 1-888-504-7441 and ask for either Sheldon Frank, local 5454 or Jim Carson, local 5455. You can also email [sheldon.frank@ufv.ca](mailto:sheldon.frank@ufv.ca) or [jim.carson@ufv.ca](mailto:jim.carson@ufv.ca) for more details. Next, you can download an application form and submit it, along with the \$45 application fee to any UFV Admissions and Records office or centre. You can also transmit it through the internet at [www.pas.bc.ca](http://www.pas.bc.ca).

If you're currently in Grade 12, you can apply now, but we require a statement from your school counsellor or principal indicating that you are likely to meet graduation requirements by June, and this must be presented at the time of your entrance exam appointment. You will be notified of your entrance exam date by the Trades and Technology Centre and there is no fee for writing this exam. If you have not been contacted within two weeks of submitting your application, please call us at 604-847-5448.

Before classes start, you'll be called and given all the registration procedures. If we can't reach you, you'll be removed from the waitlist.

## HOW MUCH WILL IT COST?

Expect to pay program fees of about \$111 per week; this covers tuition plus 10 per cent of the tuition for ancillary fees. As a welding student, you should also budget about \$250 for basic hand tools, \$300 for the required textbooks, and \$500 for your working gear. We require a deposit (currently \$200) to be paid when you register, which typically takes place one or two months before the start of each semester.

The balance of your fees must be paid by the second week of the semester. In addition, each semester (fall, winter, and summer) you will be required to pay a \$30 Student Union Society membership fee, a \$35 SUS building fee, \$4.50 Cascade student newspaper fee, a \$3 per semester radio station fee, and a \$40 universal bus pass fee

A health and dental fee (\$160 for 2009/10) is charged annually each fall semester to students with nine or more credits to provide extended medical and dental insurance. You can check with the Student Union Society or at [www.studentcare.net/works](http://www.studentcare.net/works) for details. It's also worth a visit to the UFV Financial Aid and Awards office, which facilitates the disbursement each year of about \$12 million in federal and provincial student loans, grants, bursaries, scholarships, and awards to UFV students. A helpful budget planning worksheet is available online at [www.ufv.ca/fineaid/budget](http://www.ufv.ca/fineaid/budget).

## WHERE WILL MY CLASSES BE DELIVERED?

UFV's Welding program is at the Trades and Technology Centre at the Canada Education Park, part of a 200-acre education and research park situated along the historic Vedder River in Chilliwack, B.C.

The welding shop is unlike any other in B.C., with 40 individual welding booths, each fitted with multiple fuel sources and special ventilation. The brightly lit, spacious work area features a five-ton crane to move heavy metal components, an outside grinding area, and the first robotic welding arm to be used in a training facility in Western Canada.

## CAN I SPEAK WITH SOMEONE ABOUT MY OPTIONS?

Yes! We want to hear from you! If you're unsure of your direction, contact Student Services at 1-888-504-7441 to arrange a connect with an educational advisor, or arrange for career counselling. You can also contact the Trades and Technology centre directly at 604-847-5448, or 1-888-504-7441 local 5448, or email [trades@ufv.ca](mailto:trades@ufv.ca) to get more details.



The information contained in this document is subject to change. Please refer to [www.ufv.ca/trades](http://www.ufv.ca/trades) for up-to-date information. UFV reserves the right to cancel courses and programs.



## About UFV

Nestled in the beautiful Fraser Valley just east of Vancouver, in B.C., UFV is a fully accredited, public university that enrolls more than 11,000 students each year. UFV has campuses in Abbotsford, Chilliwack, and Mission and regional centres in Hope and Agassiz, and a growing presence in Chandigarh, India.

UFV is committed to exceptional post-secondary instruction and a nurturing learning environment. We are large enough to offer variety, yet small enough to offer the personal attention that our students need to thrive. Our small class sizes and focus on teaching allow our students to get to know their instructors and learn in a hands-on setting.

We offer more than 80 programs, including 13 bachelor's degrees, a master's degree, and more than a dozen trades and technology programs. We believe that anyone who wants to go to university should be given the chance, so our admission policies are flexible, and we provide university prep courses and high school completion options. There are many options for learning: full-time, in class, online, as part of a structured program or one tailored specifically to your interests.

Many of our programs "ladder" into one another, allowing students to keep their options open. Our international programming makes for a culturally diverse student body and great opportunities to study abroad, while our continuing studies offerings make learning a lifelong experience.

UFV is recognized nationally for student success, an excellent learning environment, creative integration of programming, and our work with our local communities.

Get to know us better at [www.ufv.ca](http://www.ufv.ca).

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