



WELDING FABRICATION, YEAR 1

West Prince Campus
509 Church Street
Alberton, PE C0B 1B0
Office Phone: 902-853-6040

Welcome!

Please accept our congratulations on your acceptance into the Welding Fabrication, Year 1 program at West Prince Campus. We look forward to assisting you with your educational journey.

In response to the evolving COVID-19 situation, the Welding Fabrication, Year 1 program will be blended learning delivery; consisting of theory through distance and practical components face to face for the first semester. The intention is to resume face to face program delivery in January 2021, for the second semester. This approach allows Holland College to deliver the program to the best of its ability while adhering to public health measures regarding Covid-19.

<u>Instructor Contact Information:</u>	Devon Bernard Office: 1-902-853-0015 dabernard@hollandcollege.com
<u>Class Start Date & Time:</u>	September 01, 2020
<u>Location of Classroom:</u>	West Prince Campus, Alberton (Room 118)
<u>Christmas Break:</u>	Last teaching day: December 11 th , 2020 Students return: January 06 th , 2021
<u>February Break:</u>	Feb 22 th – 26 th , 2021
<u>OJT Date:</u>	March 01 nd – March 26 th , 2021 Students are expected to have their own mode of transportation for On-the-Job Training (OJT).
<u>Last day of class:</u>	April 23 th , 2021
<u>Provincial Test:</u>	April 27 th , 2021 (tentative)
<u>CWB Testing:</u>	April 29 th , 2021 (tentative)

Book List:

To Be Purchased at the Holland College Waterfront Campus Bookstore

- Alberta ILM Package for Welding Fabrication Year 1
- IPT's Metal Trades Handbook
- MyLab with Pearson eText -- Access Card -- For skills for success with Office 365, 2019 Version, ISBN 978-0-135366-58-5
- Scientific Calculator

Student Hardware and Software Needs for Blended and Distance Learning (Current as of May 2020)

Requirements:

Note: These are general requirements for students to participate in blended and distance courses. Some programs may have higher or different requirements and prospective students should consult their program information.

1. A desktop or laptop computer. Either a Windows-based PC with Windows 10 or a Mac with macOS Catalina 10.15 or higher. Processor: Intel i3 minimum with i5 or higher recommended. RAM: 4 Gb minimum with 8Gb or higher recommended. Storage: 10 Gb storage minimum with SSD disk recommended. Regarding storage – some programs may have higher storage requirements.
2. Speakers/headphones/earbuds with microphone for listening to audio or videos presented in courses. Note: your laptop may have a built-in microphone and speakers, but we recommend an external set for best quality of experience during synchronous activities.
3. A built-in or external webcam for interacting in course activities that require video feedback from students.
4. Google Chrome is the only browser that SAM (the College's LMS) completely supports.
5. Microsoft Office 365. Students have free access to install the suite on their computers, tablets or other mobile devices. A browser-based version is available.
6. Adobe Reader DC.
7. An Internet connection with a minimum download speed of 10Mb/s and an upload speed of 1Mb/s is recommended. A wired connection to your home router is typically preferable to a wireless connection as it provides better stability and performance.
8. Tablets, smart phones, and Chromebooks may allow you to access some course content but have limited functionality and are not recommended.

Internet Connectivity

To test your internet speed, go to <https://www.speedtest.net/> and click the "go" button. A test will take place that measures the speed at which you can upload or download data from the internet from your current location. It is normal for the upload speed to be much lower than the download speed. If necessary, consider asking others in your household to limit their use of devices/internet when you are involved in a 'virtual' class session.

The router in your house might send out more than one signal. Many routers broadcast a 2.4Ghz and a 5Ghz signal simultaneously. Connecting to the 5Ghz band is best. If you have an ethernet cable and your computer is situated near your router or modem, you might be able to use a wired connection instead of Wi-Fi for the best connectivity. For more information or help with this, email sam@hollandcollege.com.

Other Required Materials Must Be Purchased in Advance: Please keep in mind that with tools you get what you pay for. If you are wondering where to get tool you can message me for advice.

- 3"- 3 ring binder
- Lined and graph paper for binder
- Work Boots (CSA approved)
- FR Coveralls (Flame Resistant) or Carhartt
- Welding Jacket (FR cotton or leather)
- TIG welding gloves
- Gantlet style welding gloves
- Welding Helmet (fixed shade or auto darkening)
- Grinding Face Shield
- Chipping Hammer
- MIG pliers
- Wire Brushes (1 stainless & 1 mild steel)
- 12" adjustable wrench
- 9R Vise Grips
- 11R Vice Grips
- 32oz. Ball Peen Hammer
- Center Punch set
- Cold Chisel set
- Tip Cleaner
- 9-piece wrench set (¼" to 1 ¼")
- Flint Sparker
- 12" Half Round Bastard file
- 12" Flat Bastard file
- Combination Square
- 16ft Measuring Tape with metric & standard
- 5" Grinder (Makita, DeWalt, or equivalent)

Program Highlights:

- We will be doing hands on training in 5 welding and 3 cutting/ gouging processes including: SMAW(Stick), GMAW(MIG), FCAW(Flux core), MCAW(Metal core), OFW(Oxy-fuel), GTAW(TIG), PAC-A(Plasma) CAC-A(Carbon Arc) and OFC(Oxy-fuel cutting).
- You will be working with mild steel primarily, but you will also get some experience with different metals such as aluminum and stainless steel. You will learn to use hand, power tools and other equipment used in the fabrication industry. We also offer training in WHIMIS, First Aid, CPR, and a Forklift course, all of which you can receive certification in upon successful completion. In Addition to those courses you will receive Lockout/Tagout, Fall -arrest and also Rigging Safety awareness classes.
- In March there is a one month On the Job Training (OJT) called "Practicum" where students will go out to gain some real-world work experience. This is

also a great chance to show a potential employer your skills, in hopes of getting a job when the course is completed.

- In the past years we have done some community outreach projects, field trips to welding shops and at the end of the year we get a CWB inspector in to do code quality weld testing. This will give you a chance to get nationally recognized Canadian Welding Bureau tickets.