



Second Period Technical Training

- Welder -

(8 Weeks @ 30 Hours per Week = 240 hours)

Second Period Technical Training - Welder

Instructor(s):

Kevin McGladdery

Chair, Metal Trades

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Richard Dionne

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Randy Ringheim

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Office Hours:

Monday through Friday: 8:00 am - 4:00 pm

Second Period Technical Training - Welder

Course Description:

In the Second Period Technical Training you will learn about:

1. SMAW One
2. GTAW One
3. Pattern Development and Estimating
4. SMAW Two

Required Textbooks: (available at Keyano College Bookstore approximately 2 weeks prior to start date)

Second Period Welder Apprenticeship ILMs and 2nd Year Keyano College hand-out package
Alberta Learning
Edmonton: Author, 1998

Welder Program Supplies (Required for all periods):

- Books: a) *Metals and How to Weld Them*
b) *Metal Trades Handbook*
- Lined paper or notebook
- Pens, pencils, erasers
- Calculator (with no programmable memory; **Casio FX 260** is recommended)
- Fire resistant coveralls and/or cotton denim jeans/jacket and welding cap or beanie
- Welding helmet with #10 lens and cutting goggles or face shield with #5 lens
- Chipping hammer, tip cleaners, wire brush, striker
- Two pairs of vise grips
- Ankle high CSA Approved safety boots and non-tinted safety glasses with side shields
- TIG gloves

Learning Outcomes

Upon successful completion of Section One – SMAW One – you will be able to:

1. Identify SMAW equipment.
2. Select mild steel electrodes for SMAW.
3. Perform SMAW fillet welds on mild steel.
4. Identify production processes and types of iron and steel.
5. Identify carbon steels, alloy steels and alloy steel filler metals.

Upon successful completion of Section Two – GTAW One – you will be able to:

1. Apply safe work practices and procedures when using GTAW.
2. Select GTAW electrodes, filler metals and gases.
3. Troubleshoot and maintain GTAW equipment.
4. Perform GTAW on mild steel.
5. Perform GTAW on aluminum.
6. Perform GTAW on stainless steel.

Upon successful completion of Section Three – *Pattern Development and Estimating* – you will be able to:

1. Identify shapes, drawings and drawing equipment.
2. Describe layout procedures.
3. Prepare an estimate for a project.
4. Conduct an estimate for a project.

Upon successful completion of Section Four – *SMAW Two* – you will be able to:

1. Perform SMAW groove welds on mild steel.

Schedule

A detailed daily class / shop schedule will be handed out on the first day of each intake.

Grading

Your grades in this period will be based on:

SMAW One Theory, Equipment and Electrodes	20%
GTAW Theory, Equipment, Gases and Filler Metals	20%
Pattern Development and Estimating	20%
SMAW Two Lab Practical	40%
Total	100%

Important Phone Numbers

- **Candace Trites, Administrative Assistant** **780-791-4881**
Call Candace if you are going to be absent from class or have any general questions or concerns.

- **Kevin McGladdery, Chair, Metal Trades** **780-791-4900**
Call Kevin if you have any concerns with class work, instructors, or if you need any type of academic accommodations.

Call your instructor if you need information about class work, schedules or if you need extra help to learn the material.

- **Suzanne Beveridge, Alberta AIT** **1-800-248-4823**
Call Suzanne if you have questions about attendance, apprenticeship, or your employer.

- **Security** **780-791-7911**
Call security if you feel threatened while on campus, to report a fire, if you need a door unlocked, or for parking issues.

- **Office of the Registrar**
 - **Registration Assistants** **780-791-4801**
Call this office if you have questions about fees/tuition or class availability.

IMPORTANT NOTICE

Information Regarding Fees and Procedures

If the address listed on your fee assessment sheets is different from your current address, or if your address changes anytime during the duration of your program, please go to the Student Services Centre and fill out the "Change of Address" form as Keyano College requires a current address for you at all times.

Your Student ID cards are available for pick up in the Office of the Registrar. Please have your Student ID # and photo identification available. Apprentices are required to pick up a new Student ID card every Academic Year.

For information on Awards/Bursaries, please contact the Student Services Center either in person or by phone at (780) 791-4894.

Keyano College is a paid parking facility. Parking passes can be purchased at the Cashier's Office when you go to pay your program fees.

Parking Fees: (2019-2020)

2 Weeks	\$12.87
1 Month	\$24.77
2 Months	\$39.63

Please ensure that when you are paying your program fees that you indicate to the Cashier whether or not you would like to purchase a parking pass. Unreserved, General Parking is available in lots A, B, E and F. Lots C and D are reserved staff parking. If you park in a reserved spot, you can be ticketed even if you have a hang tag or daily pass. Please see the campus map for locations of the parking lots.

Please Note:

- It is now your responsibility to submit your E.I. forms on your own time. (HRDC no longer comes to the college)
- You can submit your registration on-line
<http://www100.hrdcdrhc.gc.ca/ae-ei/dem-app/english/home2.html>
- Or link from <http://www.servicecanada.gov.ca>

CLEARWATER CAMPUS MAP

For classroom MAPS please refer to
SAKC STUDENT HANDBOOK

