



First Period Technical Training

- Steamfitter-Pipefitter -

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

Instructor(s):

Kevin McGladdery

Chair, Metal Trades

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Darren Stacey

Instructor, Steamfitter-Pipefitter

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Brent Hydomako

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Shawn McCurdy

Instructor, Steamfitter-Pipefitter

780-791-4857

Shawn.Mccurdy@keyano.ca

Office Hours;

Monday through Friday: 8:00 a.m. – 4:00 p.m.

780-791-4881

Course Description:

In the First Period Technical Training you will learn about:

1. Workplace Safety and Rigging
2. Tools, Equipment and Materials
3. Metal Fabrication
4. Drawings & Specifications
5. Calculations and Science

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

First Period Steamfitter-Pipefitter Apprenticeship ILMs and 1st Year Keyano College hand-out package

Alberta Learning

Edmonton: Author, 1998–, SKU 2000308

IPT Pipe trades manual: Keyano college bookstore

Steamfitter-Pipefitter Program Supplies (Required for all periods):

- Binders for ILMs
- Lined paper or notebook
- High quality compass set
- Pens, pencils, erasers
- Calculator (with no programmable memory; Casio FX 260 is recommended)
- Tape measure
- Fire resistant coveralls and/or cotton denim jeans/jacket and welding cap or beanie
- Gauntlet type welding gloves
- Welding shield
- Welding helmet with #10 lens and cutting goggles or face shield with #5 lens
- Chipping hammer, tip cleaners, wire brush, striker
- Vise grips (C Clamp Style)
- Ankle high CSA Approved safety boots and non-tinted safety glasses with side shields

Learning Outcomes

Upon successful completion of Section One – *Workplace Safety and Rigging* – you will be able to:

1. Apply legislation, regulations and practices ensuring safe work in this trade.
2. Use industry standard practices for climbing, lifting, rigging and hoisting in this trade.
3. Apply industry standard practices for hazardous materials and fire protection in this trade.
4. Manage an apprenticeship to earn journeyman certification.
5. Use codes and standards that are applied in the pipe trades.
6. Apply arc flash safety and lockout and tagout on a jobsite.
- 7.

Upon successful completion of Section Two – *Tools Equipment and Materials* – you will be able to:

1. Use hand tools common to the pipe trades.
2. Use power tools common to the pipe trades.
3. Construct welded and flanged piping system components.
4. Construct plastic piping and tubing systems.
5. Construct threaded and grooved piping system components.
6. Construct tube and tubing system components.
7. Install valves in piping systems.
8. Install hangers, supports and fasteners for piping systems.
9. Pressure test a piping system.
10. Describe pumps for piping systems.

Upon successful completion of Section Three – *Metal Fabrication* – you will be able to:

1. Apply safe work practices according to Occupational Health and Safety Act (OHS) legislation.
2. Use oxy-fuel and arc welding equipment.
3. Braze and solder metal alloys.

Upon successful completion of Section Four – *Drawings and Specifications* – you will be able to:

1. Apply sketching and drawing concepts.
2. Develop single line pipe drawings.
3. Interpret drawings.

Upon successful completion of Section Five – *Calculations and Science* – you will be able to:

1. Apply calculations using both metric and imperial measurements.
2. Solve math problems involving perimeter, areas, percentage and grade.
3. Calculate volumetric capacities for tanks and cylinders.
4. Calculate 45° and 90° offsets for piping systems.
5. Calculate mass, volumes, densities and relative densities.

First Period Technical Training – Steamfitter-Pipefitter

6. Calculate pressures in metric and imperial values.
7. Perform electrical calculations.

Schedule

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

Grading

Your grade in this period will be based on:

Exams	85%
Final Exam	15%
THEORY TOTAL	100%
SHOP 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

