-Pre-Employment Heavy Equipment Technician -

(12 Weeks @ 30 Hours per Week = 360 hours)

Craig Cail, Chair – Construction Trades and Heavy Industrial
780-715-3902
Craig.Cail@keyano.ca

Instructor(s):

Chester Parisian – HET instructor
780-799-8610
Chester.Parisian@keyano.ca

Dorsey Butz – HET Instructor
780-799-8617
Dorsey.Butz@keyano.ca

Alan Dowling – HET Instructor
780-799-8625
Alan.Dowling@keyano.ca

Allan Fenerty – HET Instructor
780-799-5098
allan.fenerty@keyano.ca

Tony Gauthier – HET Instructor
780-792-5097
Tony.Gauthier@keyano.ca

Kevin Wills – HET Instructor
78-799-8618
Kevin.Wills@keyano.ca

Office Hours:

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

Suncor Energy Industrial Campus (SEIC)

Required Textbooks:

First Period HET Apprenticeship ILM Package

Program Supplies:

- 3-ring binders, dividers, and lined paper
- 6 or 12 inch ruler
- Pens, pencils, highlighters, erasers
- Calculator (with no programmable memory; Sharp 520 is recommended)
- Coveralls
- CSA approved safety boots
- Safety goggles
- Although classes are scheduled in person, we ask that all students are prepared with the technology required for virtual classes (online) should it become necessary; Computer/laptop, microphone, camera and internet access.

Course Description:

- PEMP 102 – Trades Science

Learning Outcomes

Upon successful completion of PEMP 102 – Trades Science – you will be able to:

1. Describe the basic structure of an atom and the subatomic particles that make an atom.
2. Describe the properties of matter.
3. Describe how simple machines operate.
4. Describe the five forces and Newton's Laws.
5. Describe the concept of heat and explain its relationship to energy.
6. Compare temperature and heat.
7. Identify sources of heat and describe their effect.
8. Describe the basic principles of an electrical circuit.
9. Illustrate how electromagnets are produced.

Schedule

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

Grading

Students must successfully meet three criteria to pass technical training.
1. Minimum 65% Theory Component *(for each PEMP course & cumulative weighted average for PHET courses)*
2. Minimum 65% on each Practical Component
3. Minimum 50% on every section of study *(for PHET courses only)*

Your grades will be based on:

PEMP 102 – Trades Science

Assignments	20%
Quizzes	30%
Final Exam (cumulative)	50%
Total Theory Component	**100%**

E-Learning

Technology and internet will impact your online learning experience. It's important that you are able to watch an online video and other course materials, take online quizzes, and participant in a live class with your instructor and other students.

Keyano College operates in a Windows based environment and having the correct tools for online learning is important. Here's a list of recommended system requirements for Fall 2020.

Internet Speed

Minimum Internet speeds of 5 Mbps.
Recommended Internet speeds of 25 Mbps (especially if you are sharing your internet at home). Check your internet speed with Fast.com.

System requirements:

Microsoft Windows	Apple
Minimum Requirements: A Windows 10 **computer/laptop** · Minimum 4GB of RAM. · 10GB+ available hard drive storage. · Enough available hard drive space to install the Microsoft Office suite (approximately 3GB). Microsoft Office software is free to all Keyano students and employees. · Microphone, webcam and speakers. A headset with a microphone is recommended. · System updates must be regularly installed. · Anti-Virus / Anti-Malware software	**Minimum Requirements:** A Macintosh (V10.14 and above) **computer/laptop** · Minimum 4GB of RAM. · 10GB+ available hard drive storage. · Enough available hard drive space to install the Microsoft Office suite (approximately 3GB). Microsoft Office software is free to all Keyano students and employees. · Microphone, webcam and speakers. A headset with a microphone is recommended. · System updates must be regularly installed. · Anti-Virus / Anti-Malware software.
Recommended Requirements · 8GB of RAM · A method of backing up/synchronizing to local or cloud-based storage such as OneDrive is highly recommended. This is included if you complete the setup of KeyanoMail and download MS Office using your Keyano email for free.	**Recommended Requirements** · 8GB of RAM · A method of backing up/synchronizing to local or cloud-based storage such as OneDrive is highly recommended. This is included if you complete the setup of KeyanoMail and download MS Office using your Keyano email for free.
Chromebooks are **not** recommended as they are not compatible with testing lockdown browsers. A Microsoft Surface or iPad or iPad Pro may be possible alternatives in some program areas.	

Specific department requirements:
Business and OA programs require Windows 10.
Other programs may utilize Windows based tools as well.

Computer Software
Students will be able to get access to Microsoft Office 365 for Free using Keyano Credentials by [clicking here](#).

Recording of lectures and Intellectual Property
Students may only record a lecture if explicit permission is provided by the instructor or by Accessibility Services. Even if students have permission to record a lecture or lecture materials, students may not publish any of the lectures or lecture materials, this includes any recordings, slides, instructor notes, etc. on any platform. Thus no student is allowed to publish or sell instructor notes without formal written permission. It is important to recognize that the Canadian Copyright Act contains provisions for intellectual property.

ITS Helpdesk
If you are having issues with your student account, you can contact the ITS Helpdesk by emailing its.helpdesk@keyano.ca or calling 780-791-4965.

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.

- **Craig Cail, Construction Trades & Heavy Industrial Chair**   **780-715-3902**
  Call Craig if you have any concerns with class work, instructors, or if you require 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.

- **Mark Power, Alberta AIT**   **780-743-7181**
  Call Mark 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.
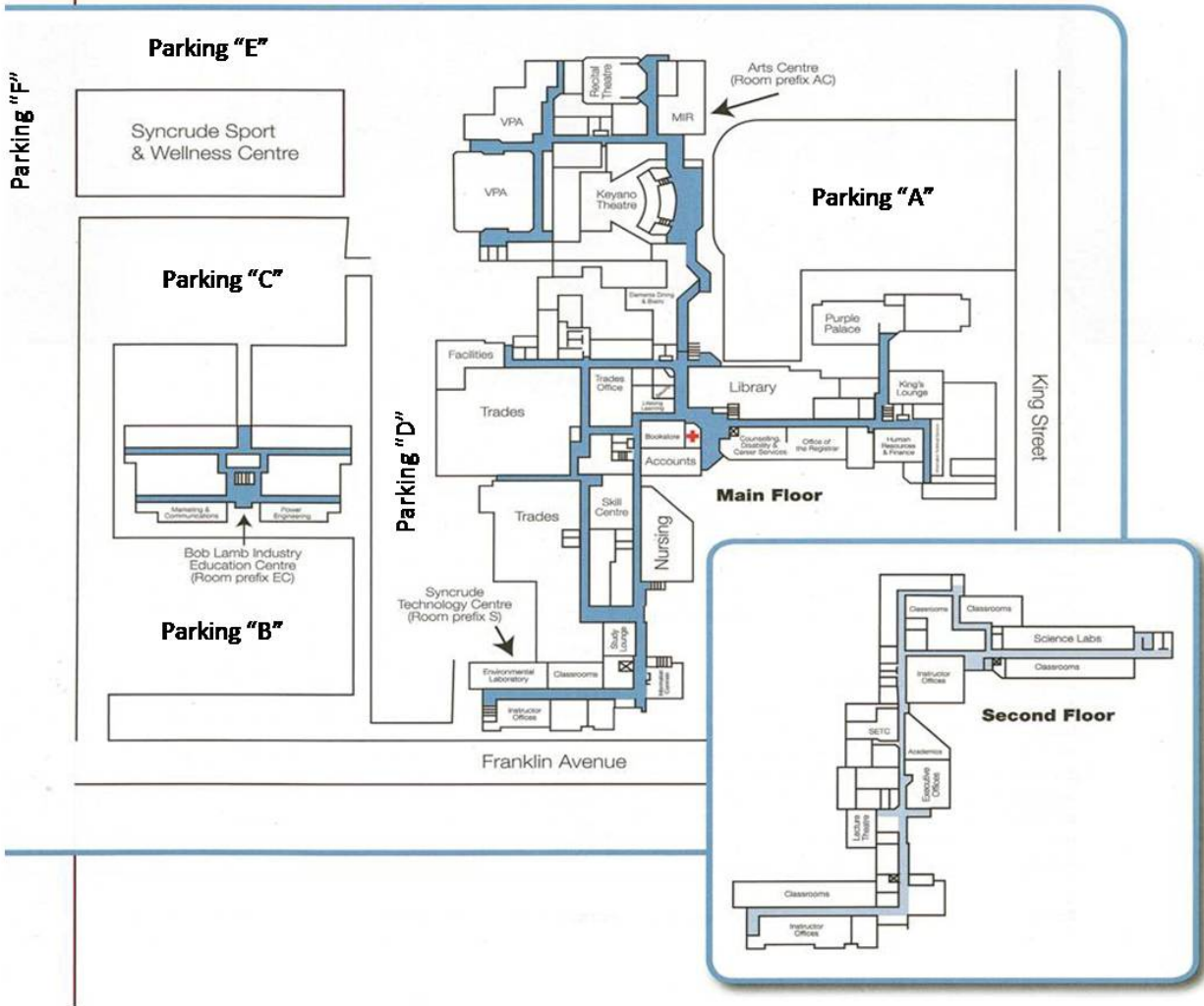
- **Office of the Registrar**
  - **Registration Assistants**   **780-791-4801**
  Call this office if you have questions about fees/tuition or class availability.

- **Student Life Calendar**   https://calendar.keyano.ca/student/
  Refer to the Student Life calendar for events and important dates for students.

Campus MAP
Keyano College Clearwater Campus

Parking "E"

Parking "F"

Syncrude Sport
& Wellness Centre

Parking "C"

Parking "D"

Recital Theatre

VPA

VPA

Keyano Theatre

Arts Centre
(Room prefix AC)

MIR

Parking "A"

Purple Palace

Facilities

Trades Office

Library

King's Lounge

Trades

Bookstore

Accounts

Counselling, Disability & Career Services

Office of the Registrar

Human Resources & Finance

Main Floor

King Street

Trades

Skill Centre

Nursing

Marketing & Communications

Power Engineering

Bob Lamb Industry Education Centre
(Room prefix EC)

Parking "B"

Syncrude Technology Centre
(Room prefix S)

Environmental Laboratory

Classrooms

Study Lounge

Instructor Offices

Franklin Avenue

Classrooms

Classrooms

Science Labs

Classrooms

Instructor Offices

SETC

Academics

Executive Offices

Second Floor

Lecture Theatre

Classrooms

Instructor Offices