

Trades and Technical

Culinary Arts



Description

The Culinary Arts program provides the knowledge and skills required to prepare students for professional entry into the food service industry. In the outreach format first period Culinary Arts program, the theory component of the program is delivered online using assignments and videos accessed through Portage College's Moodle site. The practical, hands-on component is delivered in two on-site sessions, two weeks at the beginning and three weeks at the end of the theory component of the program. Residency period required. Please note that the offering of this program is dependent on the enrollment of a fixed number of students.

Program Prerequisites

Successful Trades Exam 2, Grade 9 or equivalent, WHMIS, Standard First Aid, Alberta Food Safe Certificate.

Receiving CAP Sites

All CAP sites.

Contact Information

Portage College
Vern Yackimec
Toll-free: 1-866-623-5551 Ext. 6674
www.portagecollege.ca

Current Classes:

Culinary Arts Program

Dates: Aug 15/11 - Jun 22/12
Delivered via: Audiographics, Lab
and Practicum Component
Tuition: \$3434
Textbooks: Approx. \$217
Other fees:
Tech Fee: \$126
Exam Fee: \$300
Uniform: \$490
Comprehensive Fee: \$100
Supplies: \$550

Forestry



**PORTAGE
COLLEGE**

Description

The following courses are so students can complete the course theory online from their home communities and then participate in a short practical field experience scheduled on site at Portage College.

Contact Information

Forestry Training Programs

Phone: (780) 623-4573

For additional information, contact Admissions.

Phone: (780) 623-5580

Toll-free: 1-866-623-5551 Extension 5580

Current Classes:

Outdoor Skills

This course covers native tree and shrub identification of Alberta. Instruction focuses on tree roots, stem, crown, and their functions and different soil textures. Students will learn how to perform pre-harvest assessments.

Dates: TBA

Tuition: TBA

Mapping

This course will teach students to apply conversion skills and math calculations used in the forest industry, understand the compositions of a map and their functions in forestry, be proficient at finding location, measuring distance and direction, calculating area and interpreting details or features on aerial photographs and maps.

Dates: TBA

Tuition: TBA

Stand Tending

This course provides the knowledge and skills needed to tend young forests for a variety of different silvicultural purposes. Students will study thinning and weeding techniques using a clearing saw. Students will learn to apply their knowledge and skills to a variety of stand tending projects. The course emphasizes safe practice, ensuring that learners meet OH&S safety guidelines.

Dates: TBA

Tuition: TBA

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Forestry and Harvesting Technician



Description

The Forestry and Harvesting Technician Program prepares students for a wide variety of employment opportunities in forest resource management. This includes the operation of timber harvesting equipment and a variety of other field positions in the forestry and oil and gas industry.

The program teaches a mix of the traditional practices like navigating with maps and a compass to new state of the art equipment like logging simulators and Global Positioning Systems. During the program students will also complete many industry recognized courses offered by Woodland Operator Learning Foundation (WOLF).

The Forestry Program has traditionally been delivered on campus however many of the courses can now be taken at a distance. The distance program involves the following;

- ✓ 11 courses available by distance.
- ✓ Nine safety courses that can be taken from any location. Courses like First Aid, TDG, WHMIS, Bear Awareness, ATV Rider, Defensive Driving and H2S.
- ✓ 11 courses that need to be taken on campus. Six of these courses are government or WOLF certification courses that are available at multiple locations across the province.

This means a student can earn a Forestry and Harvesting Technician certificate by only attending five courses on campus.

Prerequisites

- ✓ Must be physically fit. Students are required to complete a health form to verify fitness level.
- ✓ Fluency in English.

Residency

Residency period required.

Receiving CAP Sites

All CAP sites; can also be done on home computers or at the workplace.

Additional Expenses

\$300 refundable equipment deposit
 \$400 (approx.) for WOEP camp expenses
 \$600 (approx.) for forestry camp
 \$50 for scaling certificate

Contact Information

Brian Panasiuk
 Phone: (780) 751-3311
 Web: www.northernlakescollege.ca

Current Classes:

COCH0100 – Compass and Chaining (1 credit)

Dates: Sep 6/11 - Dec 16/11
 Delivered via: Lab, Audioconference and Computer Conference
 Tuition: \$115
 Textbooks: * \$46

FMNP0100 – Forest Management Practices (2 credits)

Dates: Jan 3/12 - Apr 27/12
 Delivered via: Lab, Audioconference and Computer Conference
 Tuition: \$230
 Textbooks: * \$92

MAPI0100 – Map Interpretation (2 credits)

Dates: Sep 6/11 - Dec 16/11
 Delivered via: Lab, Audioconference and Computer Conference
 Tuition: \$230
 Textbooks: * \$92

PERT0100 – Performance Techniques (3 credits)

Dates: Sep 6/11 - Dec 16/11

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$230

Textbooks: * \$92

PHOI0100 – Photo Interpretation (1 credit)

Dates: Jan 3/12 - Apr 27/12

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$115

Textbooks: * \$46

RCFT0100 – Radio Operations (0.5 credit)

Dates: Sep 6/11 - Dec 16/11

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$115

Textbooks: * \$46

TIMB0100 – Timber Cruising (3 credits)

Dates: Jan 3/12 - Apr 27/12

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$230

Textbooks: * \$92

WOOD0100 – Woodsmanship (1 credit)

Dates: Sep 6/11 - Dec 16/11

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$115

Textbooks: * \$46

*Covers books, handouts and rental of lab kits

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Module 5 Developing and Implementing Maintenance Tactics – (30 Hours)

This module focuses on maintenance efforts to ensure that physical assets safely, capably, reliably and repeatedly perform to their designed specifications. Focus is on techniques to develop maintenance tactics that will address how the assets are used, how they are likely to fail, the consequence of failure, and identifying maintenance tactics that are both feasible and worth doing. After developing tactics, the module will focus upon how tactics need to be implemented and their effectiveness tracked. Topics include failure mode and effect analysis and root cause failure analysis in addition to the RCM decision process.

Module 6 Maintenance Planning and Scheduling – (30 Hours)

Planning, scheduling and work coordination form the foundation to maintenance's ability to add value to the goods and/or services of their companies and customers. Effective planning and scheduling ensure that the right things are done at the right time using the right resources and the right tools in an effort to enhance process reliability while

minimizing interruptions to production processes and/or services. This module provides a study of the fundamental principles of the planning and scheduling process in addition to the basics of planning, scheduling and work coordination methods. Upon completion of this module, participants will have a sound understanding of planning and scheduling tools and how to apply them to effectively transition from reactive to proactive maintenance and physical asset management. Key learning elements include effective use of resources, aligning maintenance activities with production or service schedules, developing and documenting maintenance strategies and integrating proactive maintenance tactics.

Module 7 Computerized Maintenance Management Systems - (30 Hours)

Module 7 is a study of the features, benefits and the effective use of a CMMS or EAM computerized maintenance work management process. Topics include selection, implementation and optimization of a suitable computerized maintenance management system (CMMS) or Enterprise Asset Management system (EAM) in

addition to ongoing support and upgrading of a CMMS/EAM based on changing requirements.

Module 8 Capstone Course – (30 Hours)

Through the application of the key learning elements from the previous 7 MMP modules students apply the principles, latest concepts and techniques to a final project. Working in small groups or teams, students will select a project that will audit, assess and improve their current maintenance departments or develop a new maintenance strategy in their company or resolve a significant maintenance issue within their departments. There is also the option of developing a "Greenfield" maintenance strategy and program upon approval from the instructor. If the prerequisite of all previous modules having been completed, the assessment of the Capstone projects is intended to qualify students for their MMP certification and designation.

Current Classes:

Maintenance Management Professional Courses

Dates: Please call Northern Lakes College or view web site

Various nights: Monday, Tuesday, Wednesday and Thursdays

- ✓ Various times to accommodate different time zones
- ✓ Live online classes with instructor and other participants.

Ten three-hour sessions once a week for Modules 2 to 8 and five three-hour sessions once a week for Module 1.

Required attendance of the live online sessions is 60% minimum. Playback of missed sessions is required.

Delivered via: Conferencing software

Tuition: \$795 for Module 2 – 8, \$395 for Module 1

Textbooks: \$80 to \$170 - Module 1, 2, 3, 4, 5, 6 & 7

Other fees: Costs may apply - Must have a head set (\$15 – \$30) with a mic to participate and communicate during the live sessions. Need PEMAC Membership during or at the end of the Modules to obtain designation and can apply to obtain Blue Seal Certification if applicable.

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Power Engineering 5th Class



Description

Power Engineering 5th Class is a program of study, designed for training individuals for the safe and efficient operation of industrial boilers and auxiliary equipment up to 3000 kW . At the Fifth Class level these boilers tend to be used for building heat applications. The course is based on the SOPEEC (Standardization for Power Engineering Examination Committee) syllabus for 5th Class and includes the following topics: an introduction to the relevant acts and codes, applied science, safety, welding and plumbing, pumps, piping and valves, details of boiler construction and fittings, fuels and combustion, boiler controls, boiler operation, maintenance and water treatment, building heating and air conditioning systems. The objective of this program is to prepare participants for the Alberta Boilers Safety Association (ABSA) Fifth Class Engineer's Certificate of Competency Examination.

Northern Lakes College offers Power Engineering 5th Class as an online learning program supported by recorded lectures, online quizzes and exams with tutorial sessions available, as required, delivered through internet conferencing. The students will study from their selected location and at their own preferred time of day but with specific deadlines to meet. Access to a high-speed internet connected computer with speakers or headset and microphone is required. If you opt to register as a full-time student you will have four and a half months to complete the program. Those who register as part-time students have up to nine months to complete.

Once the student has completed and passed this course, it is the student's responsibility:

- ✓ Apply for and pass the Provincial exam administered by the Alberta Boiler Safety Association (ABSA)
- ✓ Seek and complete six months of ABSA approved operating experience as outlined in the Engineers' Regulations of the Alberta Safety Codes Act.

Admission Requirements

- ✓ Credit in Applied, or Pure Math 10 or Technical Math & Science (LDC3210) and;
 - ✓ Credit in English 10-1 (English 10) or English 10-2 (English 13) or equivalent, or;
 - ✓ Applicants without the necessary academic requirements will be considered if they satisfactorily complete a Skills Appraisal Assessment
 - ✓ Must participate in a Personal Interview
- NOTE: Employers typically require employees to have a Grade 12 Diploma or equivalent (GED).

Receiving CAP Sites

Most CAP sites; can also be done on home computers or at the workplace where high speed Internet access is available.

Contact Information

Claire A. Russell
Coordinator, Resource Programs
Phone: (780) 849-8664

Donna Moore
Administrative Support
Phone: (780) 849-8622

Toll-free: 1-866-652-3456
power_eng@northernlakescollege.ca

Current Classes:

PWEN0500 - Power Engineering 5th Class

Full-time Dates:

July 18/11 – Nov 23/11
Sept 19/11 – Feb 1/12
Nov 21/11 – Mar 28/12
Jan 16/12 – May 23/12
Mar 20/12 – July 25/12
May 22/12 – Aug 29/12

Part-time Dates:

July 18/11 – April 18/12
Sep 19/11 – Jun 20/12
Nov 21/11 – Aug 15/12
Jan 16, 2012 – Oct 17/12
Mar 20/12 – Dec 19/12
May 22/12 – Feb 20/12

For specific details on these courses, go to www.northernlakescollege.ca.

NOTE: Full-time program is eligible for sponsorship/financing.

Costs:
Tuition: \$848 (subject to change)
Learning Resources: \$400, includes GST & Shipping (subject to change)

Power Engineering 4th Class



Description

Power Engineering 4th Class is an Alberta certification by which the operation and maintenance of boilers and associated equipment in heating plants and other industrial settings are governed. Instruction is delivered completely online supported by recorded lectures, supplemental information, quizzes, tutoring and optional tours or lab days. Graduates may apply to write Part A of the ABSA (Alberta Boiler Safety Association) Power Engineering 4th Class examination. To apply to write Part B of the ABSA examination graduates must complete either: 1) six months of operating experience as outlined in the Engineers' Regulations of the Alberta Safety Codes Act -or- 2) a certified five week lab course.

Northern Lakes College offers Power Engineering 4th Class as an online learning program supported by recorded lectures, assignments, online quizzes and exams with tutorial sessions as required delivered through internet conferencing. The students will study from their selected location and at their own preferred time of day but with specific deadlines to meet. An industrial tour in the Slave Lake / High Prairie region and a one-day lab session at SAIT or NAIT are included in, and funded by, the program. Access to a high-speed internet connected computer with speakers or headset and microphone is required. If you opt to register as a full-time student you will have eight months to complete the program. Those who register as part-time students have up to 12 months to complete.

Once the student has completed and passed this course, it is the student's responsibility to:

- ✓ Apply for and pass the Provincial Part A exam administered by the Alberta Boiler Safety Association (ABSA)
- ✓ Seek and complete six months of ABSA approved work experience; OR Apply for and pass a five week lab course offered separately at SAIT held in May, June or July, and
- ✓ Apply for and pass the Provincial Part B Exam administered by ABSA

Admission Requirements

- ✓ Hold a 5th Class Power Engineering Certificate of Competency, or;
 - ✓ Credit in Applied, or Pure Math 10 or Technical Math and Science (LDC3210)
 - ✓ Credit in English 20-1 (English 20) or English 20-2 (English 23 or equivalent), or
 - ✓ Applicants without the necessary academic requirements will be considered if they satisfactorily complete a skills appraisal assessment, and;
 - ✓ Must participate in a personal interview (can be done over the phone)
- NOTE: Employers typically require employees to have a minimum Grade 12 diploma or equivalent GED

Receiving CAP Sites

Most CAP sites; can also be done on home computers or at the workplace where high speed Internet access is available.

Contact Information

Claire A. Russell
Coordinator, Resource Programs
Phone: (780) 849-8664
power_eng@northernlakescollege.ca

Donna Moore
Administrative Support
Phone: (780) 849-8622
Toll-free: 1-866-652-3456

Current Classes:

PWEN0203 – Power Engineering 4th Class Part A and Part B

Full-Time Dates:

July 11/11 – Feb 15/12
Sept 12/11 – Apr 18/12
Nov 14/11 – June 20/12
Jan 9/12 – Aug 15/12
Mar 12/12 – Oct 17/12
May 14/12 – May 15/13

Part-Time Dates:

July 14/11 – July 11/12
Sept 12/11 – Sept 12/12
Nov 14/11 – Nov 14/12
Jan 9/12 – Jan 9/13
Mar 12/12 – Mar 13/13
May 14/12 – May 15/13

Tutoring delivered via Conferencing software

For specific details on these courses go to
www.northernlakescollege.ca

NOTE: Full-time program is eligible for
sponsorship/financing

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Costs:

Tuition: \$1512 (\$777 for Part B &
\$735 for Part A)
Learning Resources: \$900, includes
GST & shipping
Recommended Text 2004ASME: \$247
Recommended Text B51/B52: \$481

Prices subject to change

**PWEN0225 – Power Engineering
4th Class Power Lab (Optional)**

Five-week lab course – SAIT
5 weeks at SAIT (May, Jun, or July)
Tuition: as per SAIT fee (approx.. \$3200)

NOTE: Full-time program is eligible for
sponsorship/financing.

**PWEN0230 – Power Engineering
4th Class Practicum (Optional)**

160 hours
Tuition \$210

Power Engineering 3rd Class



Description

Power Engineering 3rd Class is a program of study, designed for training individuals for the safe and efficient operation of industrial boilers and auxiliary equipment up to 15,000 kW. At the Third Class level these boilers tend to be used for both heat and power applications. In Alberta, the certification of Power Engineers of all classes has been delegated to the Alberta Boilers Safety Association (ABSA). Completion of this course will help to prepare you to complete the Part A portion of the ABSA exam and will reduce the number of hours of experience necessary to write the Part B portion of the exam. For more details consult the Power Engineers' Regulations of the Alberta Safety Codes Act.

Northern Lakes College offers Power Engineering 3rd Class as an online learning program supported by recorded lectures, online quizzes and exams with tutorial sessions available, as required, delivered through internet conferencing. The students study from their selected location and at their own preferred time of day but with specific deadlines to meet. Access to a high-speed internet connected computer with speakers or headset and microphone is required. If you opt to register as a full-time student you will have eight months to complete the program. Those who register as part-time students have up to 12 months to complete.

Admission Requirements

- ✓ Hold a 4th Class Power Engineering Certificate of Competency
AND
 - ✓ Must participate in a Personal Interview
- NOTE: Employers typically require employees to have a Grade 12 Diploma or equivalent (GED).

Receiving CAP Sites

Most CAP sites; can also be done on home computers or at the workplace where high speed Internet access is available.

Fees

Tuition: \$1,696
Textbooks: \$900
(subject to change)

Contact Information

Claire A. Russell
Coordinator, Resource Programs
Phone: (780) 849-8664
power_eng@northernlakescollege.ca

Donna Moore
Administrative Support
Phone: (780) 849-8622
Toll-free: 1-866-652-3456

Current Classes:

PWEN0350 & PWEN0360 – Power Engineering Part A & Part B

Full-time Dates:

Aug 2/11 – Mar 7/12
Oct 3/11 – May 9/12
Dec 5/11 – Jul 11/12
Feb 6/12 – Sep 12/12
Apr 2/12 – Nov 7/12
Jun 4/12 – Jan 9/13

Part-time Dates:

Aug 2/11 – Aug 1/12
Oct 3/11 – Oct 3/12
Dec 5/11 – Dec 5/12
Feb 6/12 – Feb 6/13
Apr 2/12 – Apr 3/13
Jun 4/12 – Jun 5/13

For specific details on these courses, go to the Northern Lakes College web site at: www.northernlakescollege.ca. Click on Programs & Courses, click on Browse By Program, click on Power Engineering 3rd Class. This will bring you to the program details. Then click on the individual course.

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Survey Theory and Calculations



Description

The Survey Theory and Calculations program provides the theory of survey and survey calculations. The program is intended to provide anyone working on a survey crew with the required knowledge and calculation skills. The program is comprised of nine core and one of three optional courses which are all delivered by distance and can be taken at any time at any location.

Prerequisites

Must be currently employed in survey field or have at least four months prior survey experience. An employment verification letter from the employer must accompany the application.

Receiving CAP Sites

All CAP sites; can also be done on home computers or at the workplace.

Contact Information

Margaret Cifranic
Administrative Assistant
Phone: (780) 751-3360
Toll-free: 1-866-652-3456

Brian Panasiuk, Director
Business and Technical Careers
Phone: (780) 751-3311
Toll-free: 1-866-652-3456

Current Classes:

SURV0100 – Levelling and Grading

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0101 – Angles and Azimuths

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0102 – Measuring and Calculating

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0103 – Survey and Mapping

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0104 – Basic Trigonometry and Applications

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0105 – Traverse and Inverse Calculations

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0106 – Boundary Surveys

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0109 – Oilfield Survey

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0110 – Areas and Volumes

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0111 – GPS for Surveyors

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0117 – Curve Calculations

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

SURV0118 – Intersections

Continuous Intake
Delivered via: Print
Tuition: \$226
Textbooks: Included

NOTE: Each course is comprised of information sheets, examples and exercises. Students work through the material, checking answers to the exercises as they go. Students having difficulty can phone or email the instructor. The final exercise for each module is a review with no answers provided. When students complete the review, to the instructor's satisfaction, a final exam will be forwarded to the designated invigilator. Three months are given to complete each course.