

Trades and Technical

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Building Service Worker



Description

Complete the required courses for entry-level caretaking, custodial, or housekeeping positions, and earn your Building Service Worker (BSW) certificate. Courses are available in the evening or during the day.

Program Prerequisites

- ✓ Grade 8 English and math, or academic assessment
- ✓ Health/fitness status questionnaire
- ✓ Physically able to perform building service tasks

Receiving CAP Sites

All CAP sites.

Contact Information

NorQuest College
 Hassan Ali
 780-644-6269
www.norquest.ca

Current Classes:

PRTD 1000 - Carpet and Upholstery Cleaning	\$111
PRTD 1002 - Complete Floor Care	\$222
PRTD 1003 - General Cleaning	\$111
PRTD 1005 - Special Area and Washroom Cleaning	\$111
PRTD 1075 - BSW Work Experience I	\$111
PRTD 1133 - Health and Safety	\$111
PRTD 1136 - General Repairs	\$222
PRTD 1181 - Computer Communications I	\$222

All courses are continuous intake and require high speed internet

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.

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
 Fatima Tarrabain
 Toll-free: 1-866-623-5551 Ext. 5533
www.portagecollege.ca

Current Classes:

Culinary Arts Program

Dates: Aug 16/10 - Jun 24/11
 Delivered via: Audiographics, Lab
 and Practicum Component
 Tuition: \$3434
 Textbooks: Approx. \$247
 Other fees:
 Registration fee: \$50
 Tech Fee: \$126
 Exam Fee: \$300
 Uniform: \$245

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Facility Services and Management



Description

The Facility Services and Management certificate offers a variety of options for entering the fields of facility maintenance, supervision, and management.

Program Prerequisites

- ✓ Grade 10 English and math, or academic assessment
- ✓ Health/fitness status questionnaire
- ✓ Physically able to perform building service tasks
- ✓ Program interview

Receiving CAP Sites

All CAP sites.

Contact Information

NorQuest College
 Hassan Ali
 780-644-6269
www.norquest.ca

Current Classes:

PRTD 1000 - Carpet and Upholstery Cleaning	\$111
PRTD 1002 - Complete Floor Care	\$222
PRTD 1003 - General Cleaning	\$111
PRTD 1005 - Special Area and Washroom Cleaning	\$111
PRTD 1008 - Contract Cleaning	\$111
PRTD 1010 - Infection Control	\$111
PRTD 1075 - BSW Work Experience I	\$111
PRTD 1094 - Industrial Math	\$222
PRTD 1095 - Staffing and Standards	\$111
PRTD 1133 - Health and Safety	\$111
PRTD 1134 - Leadership Skills	\$111
PRTD 1136 - General Repairs	\$222
PRTD 1145 - Apartment Management	\$111
PRTD 1154 - Building Maintenance/Special Concerns	\$222
PRTD 1155 - FSM Work Experience I	\$111
PRTD 1156 - Advanced General Repairs	\$222
PRTD 1181 - Computer Communications I	\$222
PRTD 1218 - Customer Service and Entrepreneurial Skills	\$222
PRTD 1219 - Computer Writing for Business and Workplace	\$333

All courses are continuous intake and require high speed internet

Forestry



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

- ✓ Credit in English 10 (10-1) or English 13 (10-2), and
- ✓ Credit in Pure Math 10 or Applied Math 10 or Math 10 or 13; 65% in Math 10 Prep
- ✓ GED - Grade 10 Math and English equivalent level.

Other Prerequisites

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

NOTE: Students without the academic pre-requirements may be accepted if they successfully complete a Skills Appraisal Assessment.

Residency

Residency period required.

Receiving CAP Sites

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

Contact Information

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

Current Classes:

COCH0100 – Compass and Chaining (1 credit)

Dates: Aug 30/10 - Dec 18/10
 Delivered via: Lab, Audioconference and Computer Conference
 Tuition: \$115
 Textbooks: * \$45

FMNP0100 – Forest Management Practices (2 credits)

Dates: Aug 30/10 - Dec 18/10
 Delivered via: Lab, Audioconference and Computer Conference
 Tuition: \$230
 Textbooks: * \$90

MAPI0100 – Map Interpretation (2 credits)

Dates: Aug 30/10 - Dec 18/10
 Delivered via: Lab, Audioconference and Computer Conference
 Tuition: \$230
 Textbooks: * \$90

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PERT0100 – Performance Techniques (3 credits)

Dates: Aug 30/10 - Dec 18/10

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$345

Textbooks: * \$135

PHOI0100 – Photo Interpretation (1 credit)

Dates: Aug 30/10 - Dec 18/10

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$115

Textbooks: * \$45

RCFT0100 – Radio Operations (0.5 credit)

Dates: Aug 30/10 - Dec 18/10

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$57

Textbooks: * \$23

TIMB0100 – Timber Cruising (3 credits)

Dates: Aug 30/10 - Dec 18/10

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$345

Textbooks: * \$135

WOOD0100 – Woodsmanship (1 credit)

Dates: Aug 30/10 - Dec 18/10

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$115

Textbooks: * \$45

WEOP0124 – Logging Practicum (3.6 Credits)

Dates: Aug 30/10 - Dec 18/10

Delivered via: Lab, Audioconference and Computer Conference

Tuition: \$414

Textbooks: n/a

FTWPI00 – Forestry Work Practicum (3 credits)

Dates: Aug 30/10 - Dec 18/10

Delivered via: Practicum Component

Tuition: * \$345

*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: \$775 for Module 2 – 8, \$410 for Module 1

Textbooks: \$70 to \$150 - 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



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:

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.

- ✓ 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 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.

Contact Information

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

Donna Moore
Admin, Programs
Phone: (780) 849-8622

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

Current Classes:

PWEN0500 - Power Engineering 5th Class

Full-time Dates:

Jul 19/10 - Nov 24/20
Sep 20 20 - Feb 2/11
Nov 22/10 - Apr 6/11
Jan 17/11 - Jun 1/11
Mar 21/11 - Aug 3/11
May 16/11 - Sep 21/11

Part-time Dates:

Jul 19/10 - Mar 30/11
Sep 20/10 - Jun 1/11
Nov 22/10 - Aug 3/11
Jan 17/11 - Sep 28/11
Mar 21/11 - Nov 30/11
May 16/11 - Jan 25/12

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 5th

Class. This will bring you to the program details. Then click on the individual course.

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

Tuition: \$848 (subject to change)
Textbooks: \$384 (subject to change) (includes GST and Shipping)

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 successfully pass the 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
Admin, Programs
Phone: (780) 849-8622
Toll-free: 1-866-652-3456

Current Classes:

PWEN0203 – Power Engineering 4th Class Part B

Full-Time Dates:

Jul 12/10 - Nov 17/10
Sep 13/10 - Jan 19/11
Nov 8/10 - Mar 16/11
Jan 10/11 - May 18/11
Mar 14/11 - Jul 20/11
May 9/11 - Sep 14/11

Part-Time Dates:

Jul 12/10 - Jan 12/11
Sep 13/10 - Mar 16/11
Nov 8/10 - May 18/11
Jan 10/11 - Jul 13/11
Mar 14/11 - Sep 14/11
May 9/11 - Nov 9/11

PWEN0202 – Power Engineering 4th Class Part A

Full-Time Dates:

Nov 18/10 - Mar 16/11
Jan 20/11 - Apr 20/11
Mar 17/11 - Jun 23/11
May 19/11 - Aug 24/11
Jul 21/11 - Oct 19/11
Sep 15/11 - Dec 14/11

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Part-Time Dates:

Jan 13/11 - Jul 13/11

Mar 17/11 - Sep 14/11

May 19/11 - Nov 9/11

Jul 14/11 - Jan 11/12

Sep 15/11 - Mar 14/12

Nov 10/11 - May 9/12

Tutoring delivered via: Conferencing software

Costs:

Tuition Part B: \$980.50

Tuition Part A: \$927.50

Textbooks: Approx. \$864 (includes GST and shipping)

Recommended Text 2004 ASME: \$247

Recommended Text B51/B52: \$325.50

Prices are subject to change.

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

160 hrs

Tuition: \$265

**PWEN0225 – Power Engineering
4th Class**

Five Week Lab Course – SAIT (Optional)

Five Weeks at SAIT - May, Jun or Jul

Tuition: Approx.: \$3,200

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 Fourth Class. This will bring you to the program details. Then click on the individual course.

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

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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 two 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: \$220
 Textbooks: Included

SURV0101 – Angles and Azimuths

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 Textbooks: Included

SURV0102 – Measuring and Calculating

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 Textbooks: Included

SURV0103 – Survey and Mapping

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 Textbooks: Included

SURV0104 – Basic Trigonometry and Applications

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 Textbooks: Included

SURV0105 – Traverse and Inverse Calculations

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 Textbooks: Included

SURV0106 – Boundary Surveys

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 Textbooks: Included

SURV0117 – Curve Calculations

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 Textbooks: Included

SURV0118 – Intersections

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 Textbooks: Included

SURV0109 – Oilfield Survey

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 Textbooks: Included

SURV0110 – Areas and Volumes

Continuous Intake
 Delivered via: Print
 Tuition: \$220
 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.