CTS Credentialed Pathways

A pathway is a selection of courses providing students with opportunities to explore and acquire the attitudes, skills, knowledge and values for a potential career. Pathways can help students work toward goals that may include university, college, apprenticeship training, or moving directly into the workforce.

A credentialed pathway is a series of specific courses selected to provide opportunities for students to achieve a credential or credit awarded by a recognized community or industry organization or post-secondary institution.

Credentialed pathways have been aligned with post-secondary and industry standards. Alberta Education does not award the credential and/or articulation; however, the pathways have been created using outcomes from the governing bodies.

Students may take these courses for high school credit and apply to challenge the credential and/or articulation exam. All course outcomes should be met for a student to be successful in challenging the credential and/or articulation exam. It is up to the governing body for the desired credential and/or articulation to allow the student to challenge the exam. Teachers must ensure all provincial programs of study outcomes are taught and assessed.

Many post-secondary institutions in Alberta accept advanced-level CTS courses for entrance. Current admission information should be checked for accuracy.

All credentialing opportunities are external to Alberta Education, and it is the responsibility of the student, teacher and/or school to ensure that the requirements of the credentialing organization have been addressed.

Provincial Dual Credit Pathways

A provincial dual credit pathway consists of high school courses within CTS that have been authorized by Alberta Education. Provincial dual credit pathways are identified in this document by a footnote[1].

Pathway Menu

Select a credentialed pathway listed below to see the courses required and/or recommended to complete that particular pathway. Pathways are listed in alphabetical order under one of five CTS clusters or Apprenticeship Pathways.

Business, Administration, Finance & Information Technology (BIT) Credentialed Pathways

Cisco Certified Entry Networking Technician (CCENT)
CompTIA A+
CompTIA Network+
Computer Science
Focus on Information Technology (FIT)
Microsoft Office Specialist (MOS) in Microsoft Office Access
Microsoft Office Specialist (MOS) in Microsoft Office Excel
Microsoft Office Specialist (MOS) in Microsoft Office PowerPoint
Microsoft Office Specialist (MOS) in Microsoft Office Word
Microsoft Technology Associate (MTA) in Networking Fundamentals
Microsoft Technology Associate (MTA) in Windows Operating System Fundamentals
Office Administration Professional[1]

Health, Recreation & Human Services (HRH) Credentialed Pathways

Athletic Injury Management
Canadian Academy of Travel and Tourism (CATT) Level I
Canadian Academy of Travel and Tourism (CATT) Level II
Certified Coach – National Coaching Certification Program (NCCP)
Child Development Assistant
Criminal Justice Studies[1]
emerit Food and Beverage Server
First Aid in Child Care
Food Safety Certification
Foundations of Athletic Therapy
Foundations of Mentoring
Group Exercise Leader – Aquatic Exercise
Group Exercise Leader – Fitness for the Older Adult
Group Exercise Leader – Group Exercise
Group Exercise Leader – Resistance Training
Health Care Aide[1]
Leave No Trace Trainer
Medical First Responder
Physical Education and Recreation
Sport Nutrition Level 1
Sport Taping and Strapping
Standard First Aid with CPR (Level C) and AED

---

[1] Provincial Dual Credit Pathway
© Alberta Education

Media, Design & Communication Arts (MDC) Credentialed Pathways
Adobe Certified Associate (ACA) in Visual Communication using Adobe Photoshop
Adobe Certified Associate (ACA) in Rich Media Communication using Adobe Flash Professional
Adobe Certified Associate (ACA) in Web Communication using Adobe Dreamweaver
Adobe Certified Associate (ACA) in Video Communication using Adobe Premiere Pro
Advanced Stitcher Sewing Assessment
Entry Level Stitching Assessment

Natural Resources (NAT) Credentialed Pathways
Alberta Conservation and Hunter Education Program
Alberta Fishing Education Program
International Bowhunter Education Program
Pleasure Craft Operator Card

Trades, Manufacturing & Transportation (TMT) Credentialed Pathways
Power Engineering (5th Class)[1]
Power Engineering (4th Class)[1]

Apprenticeship Pathways

High school students in Alberta who successfully complete all courses in a Career and Technology Studies (CTS) Apprenticeship Pathway, as approved by the Provincial Apprenticeship Committee pursuant to the *Apprenticeship and Industry Training Act*, are eligible to write the Apprenticeship and Industry Training exam for advanced standing in the first period of technical training for that trade.

The requirements for program recognition and advanced standing must be followed as outlined by Alberta Apprenticeship and Industry Training. For more information, visit Tradesecrets: Career and Technology Studies (CTS) Apprenticeship Pathways.

- Recognition of a CTS Apprenticeship Pathway is available for the first period of technical training only. The Hairstylist Apprenticeship Pathway is the only apprenticeship pathway that includes the second period of training.

- Students are granted advanced standing for technical training towards an apprenticeship program upon
  - successful completion of the Apprenticeship and Industry Training exam, with a minimum mark of 70% (theory exam or theory and practical exam, depending on the trade)
  - registering into a contract of apprenticeship

- The CTS Apprenticeship Pathway must be taught in an Alberta Education-approved facility. The facility is the responsibility of the school authority and must be equipped to industry standards to deliver the CTS Apprenticeship Pathway. (Apprenticeship and Industry Training does not inspect or approve facilities for the delivery of K-12 programs.)

- All required courses in a CTS Apprenticeship Pathway must be instructed by a journeyperson for that trade (i.e., an individual holding a trade certificate recognized in Alberta).

For trades supported by Individual Learning Modules (ILMs), the ILMs must be utilized as a primary resource for the delivery of instruction. All students must have access to their own ILMs. Copies of the ILMs are available to teachers by login through LearnAlberta. For trades where ILMs have not been developed, please refer to the books and materials listed at Tradesecrets: Trades & Occupations List.

Students must successfully complete all courses in a CTS Apprenticeship Pathway as listed on the CTS Course Completion Record to be eligible to write the Apprenticeship and Industry Training exam. A CTS Course Completion Record is available at Tradesecrets: Forms and References for each recognized CTS Apprenticeship Pathway.

Following high school completion, a student can register as an apprentice by obtaining employment with a sponsor of apprenticeship and signing a contract of apprenticeship with the employer and Apprenticeship and Industry Training. The student must meet the entrance requirements for the trade. For complete information, visit Apprenticeship and Industry Training: Tradesecrets.

Agricultural Equipment Technician[1]	Cook[1]	Insulator[1]
Auto Body Technician[1]	Electrician[1]	Landscape Horticulturist[1]
Automotive Service Technician[1]	Hairstylist[1]	Painter and Decorator[1]
Baker[1]	Heavy Equipment Technician[1]	Parts Technician[1]
Cabinetmaker[1]	Industrial Mechanic (Millwright)[1]	Plumber[1]
Carpenter[1]	Instrumentation and Control Technician[1]	Welder[1]
Communication Technician[1]		

[1] Provincial Dual Credit Pathway

Credentialed Pathways Descriptions

Business, Administration, Finance & Information Technology (BIT) Credentialed Pathways

Cisco Certified Entry Networking Technician (CCENT)	
NET2030: Network Structures	NET3060: Wide Area Networks
NET2040: Network Media & Devices	NET3070: Routing Fundamentals
NET2050: Open System Interconnection	NET3080: Internet Processes
NET2060: Network Protocols	NET3090: Network Management
NET2070: Local Area Networks	NET3100: Network Media & Devices, Security
NET3050: Network Operating Systems	

Cisco Certified Entry Networking Technician (CCENT) validates the ability to install, operate, and troubleshoot a small enterprise branch network, including basic network security. With a CCENT, a network professional demonstrates the skills required for entry-level network support positions, the starting point for many successful careers in networking. The exam tests for knowledge and skills related to networking fundamentals, LAN switching technologies, routing technologies, infrastructure services, and infrastructure maintenance.

Students may take these courses for high school credit only and/or may choose to write the external certification exams (100–105 ICND1) at a local testing centre.

For more information, visit Cisco: Training & Certifications.
Return_to_Top

CompTIA A+	
NET2020: Workstation Technology & Operations	NET2080: Laptops & Peripherals
NET2030: Network Structures	NET3100: Network Media & Devices, Security

CompTIA A+ certification validates the latest skills needed by today's computer support professionals. It is an international, vendor-neutral certification recognized by major hardware and software vendors, distributors and resellers. CompTIA A+ confirms a technician's ability to perform tasks such as installation, configuration, diagnosing, preventive maintenance, and basic networking. The exams also cover topics such as security, networking, operating systems, IT Operations, troubleshooting, and technical support.

Students may take these courses for high school credit only and/or may choose to write the external certification at a local testing centre.

For more information, visit CompTIA.
Return_to_Top

CompTIA Network+	
NET2030: Network Structures	NET3050: Network Operating Systems
NET2040: Network Media & Devices	NET3060: Wide Area Networks
NET2050: Open System Interconnection	NET3070: Routing Fundamentals
NET2060: Network Protocols	NET3080: Internet Processes
NET2070: Local Area Networks	NET3090: Network Management

CompTIA Network+ validates the knowledge and skills of networking professionals. It is an international, vendor-neutral certification that recognizes a technician's ability to describe the features and functions of networking components and to install, configure, and troubleshoot basic networking hardware, protocols, and services. Although not a prerequisite, it is recommended that CompTIA Network+ candidates have at least nine months of experience in network support or administration, or adequate academic training, along with CompTIA A+ certification.

Students may take these courses for high school credit only and/or may choose to write the external certification at a local testing centre.

For more information, visit CompTIA.

Computer Science	
CSE3010: Computer Science 3	CSE3310: Recursive Algorithms 1
CSE3020: Computer Science 4	CSE3320: Dynamic Data Structures 1
CSE3110: Iterative Algorithm 1	CSE3330: Dynamic Data Structures 2
CSE3120: Object-oriented Programming 1	CSE3340: Dynamic Data Structures 3
CSE3130: Object-oriented Programming 2	CSE3910: CSE Project D
CSE3140: Second Language Programming 2	CSE3920: CSE Project E
CSE3210: Server-side Scripting 1	CSE3950: CSE Advanced Practicum
CSE3240: Robotics Programming 3	

Five advanced level (3000) Computer Science (CSE) courses can be used to meet entrance requirements at many universities and colleges in Alberta. Refer to the general admission requirements for individual post-secondary institutions for more information.

Focus on Information Technology (FIT)	
NET1010: Digital Technology 1	NET2110: Telecommunications 1
NET2020: Workstation Technology & Operations	NET3100: Network Media & Devices, Security
NET2080: Laptops & Peripherals	

The Focus on Information Technology (FIT) program was designed to prepare students for a world that runs on computers. It provides high school students with technology skills, business skills, and essential workplace skills and experience. Students will receive a national certification from the federal government and the Information and Communication Technology Council of Canada upon the successful completion of the identified CTS courses. Students are also encouraged to prepare for industry recognized credentials such as A+, Java, Cisco, Adobe, and/or Microsoft certifications.

For more information, visit Information and Communications Technology Council.

2019

Microsoft Office Specialist (MOS) in Microsoft Office Access
INF1050: Database 1 INF2070: Database 2

To earn the Microsoft Office Specialist (MOS) certification for Microsoft Office Access, students must pass the certification exam for the version in which they have completed their training (i.e., 2007, 2010, 2013, or 2016).

Microsoft Office Specialist exams provide a valid and reliable measure of technical proficiency and expertise by evaluating students' overall comprehension of Office programs, their ability to use the advanced features of these programs, and their ability to integrate the Office programs with other software programs.

Students can take these courses and receive only high school credit and/or may choose to write the external certification exam at a testing centre near them. MOS testing centres can be found by using the locator at Certiport Authorized Testing Center.

For more information, visit Microsoft Computer Training.
Return_to_Top

Microsoft Office Specialist (MOS) in Microsoft Office Excel
INF1060: Spreadsheet 1 INF2080: Spreadsheet 2

To earn the Microsoft Office Specialist (MOS) certification for Microsoft Office Excel, students must pass the certification exam for the version in which they have completed their training (i.e., 2007, 2010, 2013, or 2016).

Microsoft Office Specialist exams provide a valid and reliable measure of technical proficiency and expertise by evaluating students' overall comprehension of Office programs, their ability to use the advanced features of these programs, and their ability to integrate the Office programs with other software programs.

Students can take these courses and receive only high school credit and/or may choose to write the external certification exam at a testing centre near them. MOS testing centres can be found by using the locator at Certiport Authorized Testing Center.

For more information, visit Microsoft Computer Training.
Return_to_Top

Microsoft Office Specialist (MOS) in Microsoft Office PowerPoint
INF1070: Digital Presentation

To earn the Microsoft Office Specialist (MOS) certification for Microsoft Office PowerPoint, students must pass the certification exam for the version in which they have completed their training (i.e., 2007, 2010, 2013, or 2016).

Microsoft Office Specialist exams provide a valid and reliable measure of technical proficiency and expertise by evaluating students' overall comprehension of Office programs, their ability to use the advanced features of these programs, and their ability to integrate the Office programs with other software programs.

Students can take these courses and receive only high school credit and/or may choose to write the external certification exam at a testing centre near them. MOS testing centres can be found by using the locator at [Certiport Authorized Testing Center](#).

For more information, visit [Microsoft Computer Training](#).
Return_to_Top

Microsoft Office Specialist (MOS) in Microsoft Office Word
INF1030: Word Processing 1 INF2050: Word Processing 2 INF3060: Word Processing 3

To earn the Microsoft Office Specialist (MOS) certification for Microsoft Office Word, students must pass the certification exam for the version in which they have completed their training (i.e., 2007, 2010, 2013, or 2016).

Microsoft Office Specialist exams provide a valid and reliable measure of technical proficiency and expertise by evaluating students' overall comprehension of Office programs, their ability to use the advanced features of these programs, and their ability to integrate the Office programs with other software programs.

Students can take these courses and receive only high school credit and/or may choose to write the external certification exam at a testing centre near them. MOS testing centres can be found by using the locator at [Certiport Authorized Testing Center](#).

For more information, visit [Microsoft Computer Training](#).
Return_to_Top

Microsoft Technology Associate (MTA) in Networking Fundamentals

NET2030: Network Structures	NET3060: Wide Area Networks
NET2040: Network Media & Devices	NET3070: Routing Fundamentals
NET2050: Open System Interconnection	NET3080: Internet Processes
NET2060: Network Protocols	NET3100: Network Media & Devices, Security
NET2070: Local Area Networks	

To earn the Microsoft Technology Associate (MTA) certification for Networking Fundamentals, students must pass the 98–366 certification exam.

Students can take these courses and receive only high school credit and/or may choose to write the external certification exam at a testing centre near them. MTA testing centres can be found by using the locator at [Certiport Authorized Testing Center](#).

For more information, visit [Microsoft Computer Training](#).

Microsoft Technology Associate (MTA) in Windows Operating System Fundamentals

NET2020: Workstation Technology & Operations

To earn the Microsoft Technology Associate (MTA) certification for Windows Operating System Fundamentals, students must pass the 98–349 certification exam.

Students can take the CTS course and receive only high school credit and/or may choose to write the external certification exam at a testing centre near them. MTA testing centres can be found by using the locator at [Certiport Authorized Testing Center](#).

For more information, visit [Microsoft Computer Training](#).

Office Administration Professional

This dual credit pathway provides suggestions for high school CTS courses that may be grouped in various combinations to meet different post-secondary program requirements and focus areas within office administration. The courses and course combinations that align with a post-secondary institution's office administration program will be established by the participating post-secondary institution.

Bookkeeping & Accounting Focus Area

FIN1015: Accounting Prep	FIN2040: Accounting Software
FIN1020: Accounting Cycle 1	FIN2070: Payroll Accounting
FIN1030: Accounting Cycle 2	FIN3010: Advanced Accounting
FIN2020: Retail Accounting 1	FIN3020: Management Accounting
FIN2030: Retail Accounting 2	

Business Communications Focus Area

CTR2310: Career Directions—Expansion	MAM1030: Communication Strategies 1
CTR3310: Career Directions—Transitions	MAM2060: Communication Strategies 2
INF2090: Correspondence	MAM2065: Professional Communication
INF2100: Reports	MAM3080: Communication Strategies 3

Business Technologies Focus Area

COM1005: Visual Composition	INF2020: Keyboarding
COM1015: Media Impact	INF2050: Word Processing 2
COM2025: Electronic Layout & Publishing 1	INF2070: Database 2
COM3025: Electronic Layout & Publishing 2	INF2080: Spreadsheet 2
INF1030: Word Processing 1	INF3010: Hardware & Software Analysis
INF1050: Database 1	INF3060: Word Processing 3
INF1060: Spreadsheet 1	INF3095: Productivity Software Integration
INF1070: Digital Presentation	

Marketing Focus Area

MAM1010: Marketing & Management	MAM2110: E-Commerce 2
MAM1040: E-Commerce 1	MAM3020: Business in the Canadian Economy
MAM2090: Promotion – Print Advertising	

Office Procedures Focus Area

INF3080: Project Management Tools	MAM2080: Records Management 1
MAM2010: Managing for Quality	MAM3070: Office Systems 2
MAM2050: Office Systems 1	MAM3090: Records Management 2
MAM2055: Office Administration	

Petroleum Industry Focus Area

MAM2130: Energy & Resources Supply & Distribution
MAM3140: Energy & Resources Market Basics & Trends
PRS1010: Overview of Alberta Geology

Project courses that align with the occupational areas included in each focus area can provide students the opportunity to further develop project design and management skills to extend and enhance competencies and skills. Teachers need to follow parameters listed in the project courses to ensure students receive credit.

The Office Administration Professional pathway provides learners with the opportunity to gain credit towards a certificate, diploma or degree program at participating post-secondary institutions in Alberta. These courses prepare learners for occupations and careers in a variety of industries, corporations, businesses and government departments, as well as non-profit groups. Contact local post-secondary institutions for more information about delivery of dual credit courses in the Office Administration Professional pathway.

Note: For more information, please refer to the Office Administration Professional (OAP) Pathway Mapping document on the CTS Program Supports web page.

Return_to_Top

Health, Recreation & Human Services (HRH) Credentialed Pathways

Athletic Injury Management
REC1020: Injury Management 1

An Athletic First Aid Certificate is available from the Sport Medicine Council of Alberta (SMCA) upon application to the SMCA Equivalency Achievement Program.

For more information, visit Sport Medicine Council of Alberta.
Return_to_Top

Canadian Academy of Travel and Tourism (CATT) Level I	
TOU1010: The Tourism Sector	TOU1060: The Travel Industry
TOU1030: Quality Guest Service	TOU1070: The Attractions Industry

The Canadian Academy of Travel and Tourism (CATT) Level I program offers an introduction to the tourism sector and the CATT National Learning Outcomes—the skills students will need to be successful in a tourism career. Schools must first be registered with CATT and appoint a school coordinator who can then access CATT-developed teacher resources.

To receive a CATT certificate of recognition for Level I, students are required to complete:
- a minimum of 100 hours of high school CTS Tourism (TOU) 1-credit courses (suggestions are listed above)
- a minimum of 25 hours of tourism-related volunteer experience (**Note:** Students may want to use CCS1080: Community Volunteerism 1 to meet this requirement.)
- the Workplace Essentials certificate through *emerit*—a school discount is available for online training through the Alberta Hotel and Lodging Association (AHLA)
- a tourism career workshop, in conjunction with the AHLA

For more information, visit Tourism HR Canada.
Return_to_Top

Canadian Academy of Travel and Tourism (CATT) Level II
eight CTS Tourism (TOU) 1-credit courses in addition to the CATT Level I courses

The CATT Level II program builds on the knowledge and skills introduced in Level I and encourages students to take a greater interest in tourism careers. Essential skills are further developed, and the CATT National Learning Outcomes continue to be addressed.

To receive a CATT certificate of recognition for Level II, students must complete Level I **and** complete:
- a minimum of 200 additional hours of high school CTS Tourism (TOU) 1-credit courses
- a minimum of 75 additional hours of tourism-related work experience (e.g., Work Experience 15-25-35: refer to Alberta Education Off-campus Guide and your school off-campus coordinator for more information)
- the Service Best certificate through *emerit*—online training can be arranged through the Alberta Hotel and Lodging Association (AHLA)
- two other employability skill certificates (e.g., first aid/CPR or food safety certificate)

© Alberta Education   2019

After completion of Level I and II, schools may work with CATT and AHLA to establish the CATT Gold Level program with community and industry partners.

For more information, visit [Tourism HR Canada](#).

Certified Coach – National Coaching Certification Program (NCCP)	
REC1020: Injury Management 1 REC2010: Nutrition for Recreation Activities & Sport REC2060: Leadership in Recreation & Sport	REC2120: Coaching 1 REC3120: Coaching 2

The National Coaching Certification Program (NCCP) works on a national partnership with the Government of Canada, national sport organizations, provincial/territorial governments, and provincial/territorial sport organizations. The NCCP provides a range of training and certification opportunities to ensure that coaches gain the confidence to succeed.

Each provincial/territorial sport organization is responsible for identifying what courses are relevant to their sport; the Coaching Association of Canada has created a document overview of the available coaching pathways and multi-sport modules. The new NCCP model consists of three streams each with its own coaching requirements: Community Sport, Competition, and Instruction. The Community Sport Coach stream offers two levels of workshops: Initiation and Ongoing Participation. Additional sport-specific training may be required by each individual sporting organization.

For more information, visit [Coaching Association of Canada](#).

Child Development Assistant	
CCS3110: Early Learning & Child Care 1 CCS3120: Early Learning & Child Care 2 CCS3130: Early Learning & Child Care 3	CCS3140: Early Learning & Child Care 4 CCS3150: Early Learning & Child Care 5

The Child Development Assistant (formerly Level 1) Certificate may be awarded to students who complete the Child Care Orientation course, or the prescribed five CTS courses through Alberta's CTS high school program, or a 45-hour (3-credit) college-level course in child development.

For more information, visit [Alberta Human Services: Child Care Staff Certification.](#)

Criminal Justice Studies	
CJS3400: Criminal Justice Systems	CJS3470: Interpersonal Skills
CJS3405: Criminal Justice Principles	CJS3475: Relationships & Roles
CJS3410: Police Services & Trends	CJS3480: Communication Contexts & Barriers
CJS3415: Courts & Sentencing	CJS3485: CJS Communication Project
CJS3420: Correctional Systems	CJS3490: Basic Security Procedures
CJS3425: Health & Wellness Foundations	CJS3495: Advanced Security Procedures
CJS3430: Personal Fitness Standards	CJS3500: CJS Practice 1
CJS3435: Safety & Risk Management	CJS3505: CJS Practice 2
CJS3440: Professional Ethics & Standards	CJS3510: CJS Practice 3
CJS3445: Ethical Principles	CJS3515: CJS Practice 4
CJS3450: Ethical Dilemmas	CJS3520: CJS Practice 5
CJS3455: Case Studies in Ethics	HCS3000: Workplace Safety Systems
CJS3460: CJS Ethics Project	HCS3010: Workplace Safety Practices
CJS3465: Communication Skills	

The Criminal Justice Studies (CJS) pathway provides learners with the opportunity to prepare for occupations such as police officers, customs officers, Canadian intelligence officers, military police officers, correctional officers, parole officers, probation officers, crime analysts, private or corporate investigators, youth justice workers, special constables and security guards. These courses, with the exception of HCS3000: Workplace Safety Systems and HCS3010: Workplace Safety Practices, can only be offered through a partnership (i.e., a memorandum of understanding) with participating post-secondary institutions or an approved Security Services and Investigators Act (SSIA) provider that may offer courses in **one or more** of the sections identified in the CJS pathway, depending on the needs of their program. Contact local post-secondary institutions for more information about delivery of dual credit courses in the CJS pathway.

Return_to_Top

emerit Food and Beverage Server
TOU1010: The Tourism Sector
FOD1010: Foods Basics **or**
CKA3401: Kitchen Orientation*

*Course must be delivered by a journeyperson cook.

The *emerit* Level 1 occupational knowledge component of the Food and Beverage Server occupational certification may be awarded to students who successfully meet the outcomes of the credentialing agency. The *emerit* Food and Beverage Server is a certification available from Tourism HR Canada, *emerit* Tourism Training and Certification.

For more information, visit *emerit* Tourism and Training Certification.

Return_to_Top

First Aid in Child Care
HCS3040: Child Care First Aid

Successful completion of this course enables students to apply for certification in First Aid in Child Care or Standard Child Care First Aid & CPR when they meet the competencies and requirements specified by the credentialing agency (e.g., St. John Ambulance or Canadian Red Cross).

For more information, visit St. John Ambulance or Canadian Red Cross.

Return_to_Top

Food Safety Certification
FOD3900: Food Safety

Successful completion of this course prepares students for Provincial Food Handler employability certification recognized by Alberta Health. Students will need to contact an Alberta Health approved course provider to complete the appropriate coursework and write an exam for certification.

Only individuals with specialized food safety training who have completed an approved Alberta Health food safety course may teach the course.

For more information about approved food safety courses, see [Food Safety Course Certificates Approved in Alberta.](#)

Foundations of Athletic Therapy	
HCS1050: Musculoskeletal System	REC2020: Injury Management 2
HCS2020: First Aid/CPR with AED	REC3010: Human Movement
HSS1010: Health Services Foundations	REC3020: Injury Management 3
REC1020: Injury Management 1	REC3950: REC Advanced Practicum (see note below)
REC1030: Technical Foundations for Injury Management	

The Alberta Athletic Therapists Association (AATA) offers a certificate in Foundations of Athletic Therapy to students who successfully complete the pathway above.

Note: REC3950: REC Advanced Practicum is necessary because students are only eligible to apply for this certificate once they have successfully completed the pathway of courses above along with a REC practicum that is supervised by a registered athletic therapist.

For more information, visit [Alberta Athletic Therapists Association: High School CTS Certificate](#).

Foundations of Mentoring
HSS1050: Introduction to Mentorship
HSS2050: Becoming a Mentor
HSS3060: Extending the Mentoring Relationship

High school students who have completed the CTS mentoring course HSS3060: Extending the Mentoring Relationship, have been in a long-term mentoring relationship, and have completed the Online Mentor Training can apply for a Foundations of Mentoring certificate.

This certification is available from the Alberta Mentoring Partnership (AMP) in collaboration with Big Brothers Big Sisters.

For more information, visit [Alberta Mentoring Partnership](#).

Group Exercise Leader – Aquatic Exercise	
HCS1050: Musculoskeletal System	REC3010: Human Movement
HCS1080: Cardiovascular System	REC3040: Training & Conditioning
HSS1010: Health Services Foundations	REC3070: Fitness Instruction Leadership Principles
HSS1020: Nutrition & Wellness	REC3090: Aquatic Fitness Training Leadership

The Alberta Fitness Leadership Certification Association (AFLCA) offers an AFLCA Group Exercise certificate with a specialization in Aquatic Exercise for individuals to lead aquatic exercise classes for participants in facilitated exercise sessions.

For more information, visit Provincial Fitness Unit of Alberta: AFLCA Certification.
Return_to_Top

Group Exercise Leader – Fitness for the Older Adult	
HCS1050: Musculoskeletal System	HSS1020: Nutrition & Wellness
HCS1080: Cardiovascular System	REC3010: Human Movement
HCS2020: First Aid/CPR with AED	REC3040: Training & Conditioning
HSS1010: Health Services Foundations	REC3070: Fitness Instruction Leadership Principles

The Alberta Fitness Leadership Certification Association (AFLCA) offers an AFLCA Group Exercise certificate with a specialization in Fitness for the Older Adult for individuals to lead exercise classes for older adults in the community in facilitated exercise sessions.

For more information, visit Provincial Fitness Unit of Alberta: AFLCA Certification.
Return_to_Top

Group Exercise Leader – Group Exercise	
HCS1050: Musculoskeletal System	REC3010: Human Movement
HCS1080: Cardiovascular System	REC3040: Training & Conditioning
HCS2020: First Aid/CPR with AED	REC3070: Fitness Instruction Leadership Principles
HSS1010: Health Services Foundations	REC3110: Group Exercise Leadership
HSS1020: Nutrition & Wellness	REC3950: REC Advanced Practicum (see note below)

The Alberta Fitness Leadership Certification Association (AFLCA) offers an AFLCA Group Exercise certificate with a specialization in Group Exercise for individuals to lead land exercise classes for participants in facilitated exercise sessions.

Note: REC3950: REC Advanced Practicum is necessary because students can only complete one specialized designation while taking REC3110: Group Exercise Leadership. Students who desire additional specialized designation certificates can choose to complete them as part of a practicum experience.

For more information, visit Provincial Fitness Unit of Alberta: AFLCA Certification.
Return_to_Top

Group Exercise Leader – Resistance Training	
HCS1050: Musculoskeletal System	REC3010: Human Movement
HCS1080: Cardiovascular System	REC3040: Training & Conditioning
HCS2020: First Aid/CPR with AED	REC3070: Fitness Instruction Leadership Principles
HSS1010: Health Services Foundations	REC3080: Resistance Training Leadership
HSS1020: Nutrition & Wellness	

The Alberta Fitness Leadership Certification Association (AFLCA) offers an AFLCA Group Exercise certificate with a specialization in Resistance Training for individuals to lead exercise classes for participants in facilitated exercise sessions.

For more information, visit Provincial Fitness Unit of Alberta: AFLCA Certification.
Return_to_Top

Health Care Aide	
HCA3400: Role & Responsibilities	HCA3465: Complex Care Needs 1
HCA3405: Safety Systems	HCA3470: Complex Care Needs 2
HCA3410: Communication Level 1	HCA3475: Medication Delivery
HCA3415: Communication Level 2	HCA3480: Diverse Client Groups
HCA3420: The Human Body	HCA3485: Clients with Dementia
HCA3425: Aging & Illness	HCA3490: Disability & Mortality
HCA3430: Client Hygiene	Integrated Clinical Practicum 2 Option A*
HCA3435: Bathing & Elimination	HCA3495: Clinical Practice 2A
HCA3440: Bed Making & Mobility	HCA3500: Clinical Practice 2B
HCA3445: Positioning & Meals	HCA3505: Clinical Practice 2C
Integrated Clinical Practicum 1 Option A*	HCA3510: Clinical Practice 2D
HCA3450: Clinical Practice 1A and	HCA3515: Clinical Practice 2E
HCA3455: Clinical Practice 1B	HCA3520: Clinical Practice 2F
Integrated Clinical Practicum Option B (2 credits)*	HCA3525: Clinical Practice 2G
HCA 3460: Clinical Practice 1 (instead of 1A & 1B)	Integrated Clinical Practicum 2 Option B (7 credits)*
	HCA3530: Clinical Practice 2 (instead of 2A-2G)

*Integrated Clinical Practicum courses may be recorded utilizing **either** option A or option B, but **not both**.

All Health Care Aide (HCA) courses must be instructed by an individual with a minimum qualification of a licensed practical nurse (LPN) who is under the authority of a post-secondary institution that has received licensing from Alberta Health to provide the Health Care Aide credential.

The HCA pathway prepares learners for certification as unregulated care providers to work in a variety of care settings including, but not restricted to, continuing care (home, facility and supportive), community living, stable acute care and mental health programs. This pathway can only be offered through a partnership (i.e., a memorandum of understanding) with a post-secondary institution that has received licensing from Alberta Health to provide the Health Care Aide credential.

Note: For a list of the post-secondary institutions licensed to offer the Health Care Aide program, visit Alberta Health: Health care aide programs in Alberta.
Return_to_Top

Leave No Trace Trainer
TOU1010: The Tourism Sector TOU1120: Adventure & Ecotourism 1

A Leave No Trace Trainer (LNT) certification may be awarded by a registered LNT Master Trainer.

For more information, visit Leave No Trace Canada.

Medical First Responder	
HCS1080: Cardiovascular System HCS2020: First Aid/CPR with AED	HCS3020: First Responder 1 HSS1010: Health Services Foundations

Students may apply for certifications, such as health care provider or first responder, when they meet the competencies and requirements specified by an approved credentialing agency (e.g., St. John Ambulance or Canadian Red Cross).

For a list of approved training agencies and courses, visit Alberta Labour: First aid training.

Physical Education and Recreation	
REC3015: Flexibility Training REC3020: Injury Management 3 REC3025: Cardiovascular Training REC3030: Speed & Agility REC3040: Training & Conditioning REC3045: Periodization REC3050: Sport Psychology 3 REC3060: Ever Active Kids Leadership REC3070: Fitness Instruction Leadership Principles REC3080: Resistance Training Leadership	REC3085: Olympic Weightlifting REC3090: Aquatic Fitness Training Leadership REC3100: Fitness Leadership for the Older Adult REC3110: Group Exercise Leadership REC3120: Coaching 2 REC3130: Officiating REC3140: Sport & Society REC3910: REC Project D REC3920: REC Project E REC3950: REC Advanced Practicum

Five advanced level (3000) Recreation Leadership (REC) courses can be used to meet entrance requirements for admission to bachelor programs at the Faculty of Physical Education and Recreation at the University of Alberta.

Sport Nutrition Level 1
REC2010: Nutrition for Recreation Activities & Sport

A Sport Nutrition Level 1 Certificate is available from the Sport Medicine Council of Alberta (SMCA) upon application to the SMCA Equivalency Achievement Program. Your school must already be an approved equivalency school.

For more information, visit Sport Medicine Council of Alberta.

Sport Taping and Strapping	
HCS1050: Musculoskeletal System	REC1020: Injury Management 1
HSS1010: Health Services Foundations	REC1030: Technical Foundations for Injury Management
	REC2020: Injury Management 2

A Sport Taping & Strapping Certificate is available from the Sport Medicine Council of Alberta (SMCA) upon application to the SMCA Equivalency Achievement Program. The prerequisite for this certification is Athletic Injury Management.

For more information, visit [Sport Medicine Council of Alberta](#).

Standard First Aid with CPR (Level C) and AED
HCS2020: First Aid/CPR with AED

Successful completion of this course enables students to apply for certification in Standard First Aid with CPR and AED when they meet the competencies and requirements specified by an approved credentialing agency (e.g., St. John Ambulance or Canadian Red Cross).

For a list of approved training agencies, visit [Alberta Labour: First aid training](#).

Media, Design & Communication Arts (MDC) Credentialed Pathways

Adobe Certified Associate (ACA) in Visual Communication using Adobe Photoshop	
COM1005: Visual Composition COM1035: Graphics Tools	COM2035: Raster Graphics 1 COM3035: Raster Graphics 2

An Adobe Certified Associate (ACA) credential certifies that individuals have the entry-level skills to plan, design, build, and maintain effective communications using different forms of digital media.

Students who have completed the outcomes in COM2035: Raster Graphics 1 and COM3035: Raster Graphics 2, using Adobe Photoshop, will have met the objectives specified by the Adobe Certified Associate (ACA) program for certification in Visual Communication using Adobe Photoshop CS4/CS5/CS6.

For more information, visit Adobe Certified Associate program.
Return_to_Top

Adobe Certified Associate (ACA) in Rich Media Communication using Adobe Flash Professional	
COM1005: Visual Composition COM1015: Media COM1055: Web Design 1	COM2055: Web Design 2 COM3055: Rich Media – Basics COM3065: Rich Media – Programming

An Adobe Certified Associate (ACA) credential certifies that individuals have the entry-level skills to plan, design, build, and maintain effective communications using different forms of digital media.

Students who have completed the outcomes in COM1015: Media, COM1055: Web Design 1, COM2055: Web Design 2, and COM3065: Rich Media – Programming, using Flash, will have met the objectives specified by the Adobe Certified Associate (ACA) program for certification in Rich Media Communication using Adobe Flash Professional CS4/CS5/CS6.

For more information, visit Adobe Certified Associate program.
Return_to_Top

Adobe Certified Associate (ACA) in Web Communication using Adobe Dreamweaver	
COM1005: Visual Composition COM1055: Web Design 1	COM2055: Web Design 2 COM3075: Cascading Style Sheets

An Adobe Certified Associate (ACA) credential certifies that individuals have the entry-level skills to plan, design, build, and maintain effective communications using different forms of digital media.

Students who have completed the outcomes in COM3075: Cascading Style Sheets, using Adobe Dreamweaver CS4/CS5/CS6, will have met the objectives specified by the Adobe Certified Associate (ACA) program for certification in Web Communication using Adobe Dreamweaver CS4/CS5/CS6.

For more information, visit Adobe Certified Associate program.
Return_to_Top

Adobe Certified Associate (ACA) in Video Communication using Adobe Premiere Pro	
COM1005: Visual Composition	COM2125: AV Postproduction 1
COM1105: Audio/Video	COM3125: AV Postproduction 2

An Adobe Certified Associate (ACA) credential certifies that individuals have the entry-level skills to plan, design, build, and maintain effective communications using different forms of digital media.

Students who have completed the outcomes in COM3125: AV Postproduction 2, using Adobe Premiere Pro CS5/CS6, will have met the objectives specified by the Adobe Certified Associate (ACA) program for certification in Video Communication using Adobe Premiere Pro CS5/CS6.

For more information, visit Adobe Certified Associate program.
Return_to_Top

Advanced Stitcher Sewing Assessment	
FAS1010: Fashion Dynamics	FAS2050: Flat Pattern 1 or FAS2060: Pattern Drafting1
FAS1020: Textiles & Their Care	FAS2130: Construction Fundamentals 2
FAS1030: Sewing Fundamentals	FAS3130: Construction Fundamentals 3
FAS1130: Construction Fundamentals 1	FAS3160: Industrial Sewing Techniques
FAS2040: Evolution of Fashion	FAS3180: Theatrical Costuming

The list of courses was designed to prepare students to challenge the Advanced Stitcher Assessment Exam to apply to become a stitcher in the costume department with the International Alliance of Theatrical Stage Employees (IATSE) Local 212. Students must have completed the Entry Level Stitching Assessment, be over the age of 18, and have at least 20 days of related work experience in order to be considered. Additional information on this pathway is available through the IATSE Local 212 Education Coordinator.

For more information, visit I.A.T.S.E. Local 212.
Return_to_Top

Entry Level Stitching Assessment	
FAS1010: Fashion Dynamics	FAS1130: Construction Fundamentals 1
FAS1020: Textiles & Their Care	FAS2130: Construction Fundamentals 2
FAS1030: Sewing Fundamentals	FAS3130: Construction Fundamentals 3

The list of courses was designed to prepare students to challenge the Entry Level Sewing Assessment Exam to become a permittee in the costume department for the International Alliance of Theatrical Stage Employees (IATSE) Local 212. Students are required to submit an application and be preapproved by the department before taking the sewing exam. Students are encouraged to have 20 days of related work experience. Additional information on this pathway is available through the IATSE Local 212 Education Coordinator.

For more information, visit I.A.T.S.E. Local 212.
Return_to_Top

Natural Resources (NAT) Credentialed Pathways

Alberta Conservation and Hunter Education Program
WLD1070: Hunting & Game Management Theory WLD2070: Hunting & Game Management Practice

Alberta Conservation and Hunter Education Training Program student certificates and wallet ID cards may be awarded to students who successfully meet the outcomes of WLD2070: Hunting & Game Management Practice and receive at least 70% on the Alberta Conservation and Hunter Education written examination or 80% on the online exam.

For more information, visit Alberta Hunter Education Instructors' Association.
Return_to_Top

Alberta Fishing Education Program
WLD1080: Angling & Fish Management Theory

Alberta Fishing Education Program student certificates may be awarded to students who successfully meet the outcomes of WLD1080: Angling & Fish Management Theory and receive at least 70% on the Alberta Fishing Education Program exam.

For more information, visit Alberta Hunter Education Instructors' Association.
Return_to_Top

International Bowhunter Education Program
WLD1075: Bowhunting Education

An International Bowhunter Education Program student wallet card may be awarded to students who successfully meet the outcomes of WLD1075: Bowhunting Education and receive at least 70% on the International Bowhunter Education Program exam.

For more information, visit Alberta Hunter Education Instructors' Association.
Return_to_Top

Pleasure Craft Operator Card
WLD1090: Boating Safety

By successfully completing WLD1090: Boating Safety and receiving a mark of 75% on an exam from an accredited course provider, students can obtain a Pleasure Craft Operator Card.

For a list of accredited course providers, visit Transport Canada.
Return_to_Top

Trades, Manufacturing & Transportation (TMT) Credentialed Pathways

Power Engineering 5th Class

PEN3400: Safety & Codes
PEN3405: Applied Science
PEN3410: Electricity & Welding
PEN3415: Plumbing & Piping
PEN3420: Boiler Details
PEN3425: Boiler Operation
PEN3430: Heating Systems
PEN3435: Human Comfort

PEN3440: Refrigeration Theory
PEN3445: Heating & Cooling
PEN3450: AC & Refrigeration
PEN3455: Pumps & Compression
PEN3460: Water Treatment
PEN3465: PEN Practicum A
PEN3470: PEN Practicum B

This course can only be offered through a partnership (i.e., a memorandum of understanding) with a post-secondary institution that has received approval from Alberta Boilers Safety Association (ABSA) to provide instruction for a 5th class power engineer program.

For more information on approved post-secondary institutions, visit the Accepted Power Engineer Programs list on the ABSA website.

Return_to_Top

Power Engineering 4th Class

PEN3500: Math & Mechanics
PEN3505: Science Principles
PEN3510: Foundations
PEN3515: Safety
PEN3520: Environmental Impact
PEN3525: Materials & Welding
PEN3530: Boiler Construction
PEN3535: Draft, Valves & Gauges
PEN3540: Boiler Operation
PEN3545: Engines & Turbines
PEN3550: Pumps
PEN3555: Electricity
PEN3560: Instrumentation

PEN3565: Heating Boilers
PEN3570: Heating Systems
PEN3575: System Controls
PEN3580: Refrigeration 1
PEN3585: Refrigeration 2
PEN3590: Air Conditioning 1
PEN3595: Air Conditioning 2
PEN3600: Boiler Maintenance
PEN3605: PEN Practicum A
PEN3610: PEN Practicum B
PEN3615: PEN Practicum C
PEN3620: PEN Practicum D

This course can only be offered through a partnership (i.e., a memorandum of understanding) with a post-secondary institution that has received approval from Alberta Boilers Safety Association (ABSA) to provide instruction for a 4th class power engineer program.

For more information on approved post-secondary institutions, visit the Accepted Power Engineer Programs list on the ABSA website.

Return_to_Top

Apprenticeship Pathways

Agricultural Equipment Technician First Period	
AEA3400: Tools & Materials	AEA3445: Farm Equipment 1
AEA3405: Welding Equipment	AEA3450: Farm Equipment 2
AEA3410: Electric Welding	AEA3455: Farm Equipment 3
AEA3415: Electrical Fundamentals	AEA3460: Power Transmission
AEA3420: Current & Resistance	AEA3465: Gears & Axles
AEA3425: Batteries & Diagnostics	AEA3470: AEA Practicum A
AEA3430: Electrical Diagnostics	AEA3475: AEA Practicum B
AEA3435: Hydraulic Fundamentals	AEA3480: AEA Practicum C
AEA3440: Hydraulic Systems	AEA3485: AEA Practicum D
	AEA3900: Apprenticeship Safety

All Agricultural Equipment Technician Apprenticeship (AEA) courses must be delivered by a journeyperson agricultural equipment technician.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Auto Body Technician First Period	
ABA3401: Workplace Skills	ABA3425: Masking
ABA3402: Tools, Batteries & Detailing	ABA3430: Undercoating
ABA3405: Removal & Installation 1	ABA3435: ABA Practicum A
ABA3406: Removal & Installation 2	ABA3440: ABA Practicum B
ABA3410: Substrates	ABA3445: ABA Practicum C
ABA3415: Fillers	ABA3450: ABA Practicum D
ABA3420: Surface Preparation	ABA3900: Apprenticeship Safety

All Auto Body Technician Apprenticeship (ABA) courses must be delivered by a journeyperson auto body technician.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Automotive Service Technician First Period	
ASA3400: Basic Tools & Materials	ASA3440: Disc & Drum Brakes
ASA3402: Vehicle Service Information	ASA3445: Brake System Repairs
ASA3405: Electrical Principles	ASA3450: Wheels & Drive Lines
ASA3410: Electrical Circuits	ASA3452: Maintenance & Trailers
ASA3412: Electrical Service	ASA3455: ASA Practicum A
ASA3415: Frames & Undercarriage	ASA3460: ASA Practicum B
ASA3420: Steering Systems	ASA3465: ASA Practicum C
ASA3425: Suspension Systems	ASA3470: ASA Practicum D
ASA3430: Alignment Procedures	ASA3900: Apprenticeship Safety
ASA3435: Brake Fundamentals	

All Automotive Service Technician Apprenticeship (ASA) courses must be delivered by a journeyperson automotive service technician.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Baker First Period	
BKA3400: Tools & Equipment	BKA3445: Pastries
BKA3405: Raised Goods Theory 1	BKA3450: Custards & Fillings
BKA3410: Raised Goods Practical 1	BKA3455: Icings & Piping
BKA3415: Raised Goods Theory 2	BKA3460: Baking Math
BKA3420: Raised Goods Practical 2	BKA3465: BKA Practicum A
BKA3425: Baking & Frying	BKA3470: BKA Practicum B
BKA3430: Cakes	BKA3475: BKA Practicum C
BKA3435: Cookies	BKA3480: BKA Practicum D
BKA3440: Quick Breads	BKA3900: Apprenticeship Safety

All Baker Apprenticeship (BKA) courses must be delivered by a journeyperson baker.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Cabinetmaker First Period

CMA3400: Properties of Wood	CMA3450: Drafting Basics
CMA3405: Processing Lumber	CMA3455: Drawings & Cut Lists
CMA3410: Adhesives & Fasteners	CMA3460: CAD & Print Reading
CMA3415: Abrasives & Joinery	CMA3465: Trade Mathematics
CMA3420: Hand Tools 1	CMA3470: CMA Practicum A
CMA3425: Hand Tools 2	CMA3475: CMA Practicum B
CMA3430: Electric & Air Tools	CMA3480: CMA Practicum C
CMA3435: Power Saws	CMA3485: CMA Practicum D
CMA3440: Tooling Equipment	CMA3900: Apprenticeship Safety
CMA3445: Band Saws & Planers	

All Cabinetmaker Apprenticeship (CMA) courses must be delivered by a journeyperson cabinetmaker.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Carpenter First Period

CRA3402: Building Materials	CRA3452: Sketching & Drawing
CRA3407: Hand Tools Theory	CRA3457: Drawing Principles
CRA3412: Hand Tools Practical	CRA3462: Math Concept
CRA3417: Portable Power Tools	CRA3467: Estimating
CRA3422: Stationary Tools	CRA3470: CRA Practicum A
CRA3427: Accessory Tools	CRA3475: CRA Practicum B
CRA3432: Building Foundations	CRA3480: CRA Practicum C
CRA3437: Foundations Theory	CRA3485: CRA Practicum D
CRA3442: Foundations Practical	CRA3900: Apprenticeship Safety
CRA3447: Floor Frames	

All Carpenter Apprenticeship (CRA) courses must be delivered by a journeyperson carpenter.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Communication Technician First Period	
CTA3400: Electricity Fundamentals	CTA3440: Network Fundamentals
CTA3405: AC/DC	CTA3445: Network Devices & IP
CTA3410: Basic Electricity	CTA3450: CTA Practicum A
CTA3415: Mathematics	CTA3455: CTA Practicum B
CTA3420: Outside Cabling	CTA3460: CTA Practicum C
CTA3425: Inside Cabling	CTA3465: CTA Practicum D
CTA3430: Telephone Basics	CTA3900: Apprenticeship Safety
CTA3435: Switching & Equipment	

All Communication Technician Apprenticeship (CTA) courses must be delivered by a journeyperson communication technician.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit [Tradesecrets](#).
[Return_to_Top](#)

Cook First Period	
CKA3401: Kitchen Orientation	CKA3451: Breakfast & Dairy
CKA3406: Kitchen Mathematics	CKA3456: Introduction to Baking
CKA3411: Meats & Seafood 1	CKA3461: Breads & Cookies
CKA3416: Meats & Seafood 2	CKA3466: Pies & Fillings
CKA3421: Cooking Proteins 1	CKA3560: CKA Practicum A
CKA3426: Cooking Proteins 2	CKA3565: CKA Practicum B
CKA3431: Stocks & Soups	CKA3570: CKA Practicum C
CKA3436: Thickeners & Sauces	CKA3575: CKA Practicum D
CKA3441: Fruits & Vegetables	CKA3900: Apprenticeship Safety
CKA3446: Starches & Salads	

All Cook Apprenticeship (CKA) courses must be delivered by a journeyperson cook.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit [Tradesecrets](#).
[Return_to_Top](#)

Electrician First Period

ETA3400: Electrical Principles
ETA3405: Electrical Concepts
ETA3410: Resistive Circuits
ETA3415: Edison 3-Wire Systems
ETA3420: Power & Efficiency
ETA3425: Batteries & Magnetism
ETA3430: Meters & Connections
ETA3435: Switching Circuits
ETA3440: Relays & Controls
ETA3445: Switches & Alarms

ETA3450: Introduction to Code
ETA3455: Conductors & Grounding
ETA3460: Wiring & Installation
ETA3465: Diagrams & Drawings
ETA3470: ETA Practicum Course A
ETA3475: ETA Practicum Course B
ETA3480: ETA Practicum Course
ETA3485: ETA Practicum Course D
ETA3900: Apprenticeship Safety

All Electrician Apprenticeship (ETA) courses must be delivered by a journeyperson electrician.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Hairstylist First Period

HSA3406: Work Environment
HSA3411: Head Anatomy and Physiology
HSA3416: Haircutting Tools and Equipment
HSA3421: Consultation and Draping
HSA3426: Salon Operations
HSA3431: Hair and Scalp Analysis
HSA3436: Shampoo and Condition Hair
HSA3441: Principles of Haircutting and Styles
HSA3446: Customizing Haircuts
HSA3451: Demonstrate the Principles of Haircutting
HSA3456: Demonstrate Haircutting on Various Types of Hair
HSA3461: Razor Cutting and Shear Cutting

HSA3466: Clipper Cutting
HSA3471: Texturizing Techniques
HSA3476: Various Haircuts
HSA3481: Customizing Techniques
HSA3486: Haircutting Techniques
HSA3491: Facial and Nape Hair Theory
HSA3496: Facial and Nape Hair Trimming and Removal
HSA3501: Style Hair
HSA3775: HSA Practicum A
HSA3780: HSA Practicum B
HSA3785: HSA Practicum C
HSA3790: HSA Practicum D
HSA3900: Apprenticeship Safety

Hairstylist Second Period

HSA3506: Styling, Perming, and Colouring Tools and Equipment
HSA3511: Drying Hair
HSA3516: Setting Wet Hair
HSA3521: Styling Dry Hair
HSA3526: Updo and Upstyle Styling Techniques
HSA3531: Style Hair Using Accessories
HSA3536: Hair Wrapping 1
HSA3541: Hair Wrapping 2
HSA3546: Chemical Waving 1
HSA3551: Chemical Waving 2

HSA3556: Chemical Relaxers 1
HSA3561: Chemical Relaxers 2
HSA3566: Colouring Hair 1
HSA3571: Colouring Hair 2
HSA3576: Colouring Hair 3
HSA3581: Colouring Virgin Hair and Regrowth
HSA3586: Colouring Hair Using Special Effects
HSA3591: Lighten Virgin Hair and Regrowth
HSA3596: Lighten Hair Using Special Effects
HSA3601: Colour Corrections
HSA3606: Specialized Services and Standards

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Heavy Equipment Technician First Period	
HEA3400: Basic Tools & Materials	HEA3450: Electronics
HEA3405: Bearings & Seals	HEA3455: Air Brake Fundamentals
HEA3410: Frames & Suspension	HEA3460: Air Brake Mechanics
HEA3415: Wheels & Preventive Maintenance	HEA3465: Air Brake Service
HEA3420: Trailer Systems	HEA3470: HEA Practicum A
HEA3425: Brake Fundamentals	HEA3475: HEA Practicum B
HEA3430: Brake Service & Repair	HEA3480: HEA Practicum C
HEA3435: Hydraulic Systems	HEA3485: HEA Practicum D
HEA3440: Electrical Theory	HEA3900: Apprenticeship Safety
HEA3445: Electrical Service	

All Heavy Equipment Technician (HEA) courses must be delivered by an individual with journeyperson certification as a heavy duty mechanic or trailer mechanic and/or a heavy equipment technician.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Industrial Mechanic (Millwright) First Period	
MWA3400: Rigging	MWA3445: Numbers
MWA3405: Measurement	MWA3450: Mathematics
MWA3410: Layout	MWA3455: Print Reading
MWA3415: Portable Tools	MWA3460: MWA Practicum A
MWA3420: Fasteners	MWA3465: MWA Practicum B
MWA3425: Drilling & Milling	MWA3470: MWA Practicum C
MWA3430: Lathe Introduction	MWA3475: MWA Practicum D
MWA3435: Lathe Operation	MWA3900: Apprenticeship Safety
MWA3440: Machine Installation	

All Industrial Mechanic Apprenticeship (MWA) courses must be delivered by a journeyperson industrial mechanic.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Instrumentation and Control Technician First Period	
ISA3400: Tools & Equipment	ISA3450: Control Elements
ISA3405: Tube Practice	ISA3455: Control Valves
ISA3410: Pipe Practice	ISA3460: Applied Math
ISA3415: Electrical Theory	ISA3465: Applied Physics
ISA3420: Resistive Circuits	ISA3470: ISA Practicum A
ISA3425: Power & Efficiency	ISA3475: ISA Practicum B
ISA3430: Inductance & Capacitance	ISA3480: ISA Practicum C
ISA3435: Hazards & Regulations	ISA3485: ISA Practicum D
ISA3440: Pressure Measurement	ISA3900: Apprenticeship Safety
ISA3445: Calibration	

All Instrumentation and Control Technician Apprenticeship (ISA) courses must be delivered by a journeyperson instrumentation and control technician.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Insulator First Period	
INA3400: Introduction & Safety	INA3440: Cellular Glass
INA3405: Asbestos Awareness	INA3445: Mathematics
INA3410: Bonding	INA3450: Blueprints
INA3415: Pipe Insulation	INA3455: INA Practicum A
INA3420: Tools & Materials	INA3460: INA Practicum B
INA3425: Fibres & Foam	INA3465: INA Practicum C
INA3430: Polystyrenes & Wraps	INA3470: INA Practicum D
INA3435: Wool & Fibreglass	INA3900: Apprenticeship Safety

All Insulator Apprenticeship (INA) courses must be delivered by a journeyperson insulator.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Landscape Horticulturist First Period

LGA3406: Equipment and Tools
LGA3411: Vehicle Transportation and Operation
LGA3416: Site Maintenance
LGA3425: Plant Taxonomy
LGA3435: Botany 1
LGA3440: Botany 2
LGA3441: Ecosystems
LGA3446: Environmental Stewardship and Water Quality
LGA3451: Soil Management 1
LGA3456: Soil Management 2

LGA3461: Soilless Growing Media
LGA3466: Turfgrass
LGA3471: Fertilization
LGA3473: Exterior Softscape Maintenance
LGA3475: LGA Practicum A
LGA3480: LGA Practicum B
LGA3485: LGA Practicum C
LGA3490: LGA Practicum D
LGA3900: Apprenticeship Safety

All Landscape Horticulturist Apprenticeship (LGA) courses must be delivered by a journeyperson landscape horticulturist.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Painter and Decorator First Period

PDA3400: Material Selection
PDA3405: Surface Prep Theory 1
PDA3410: Surface Prep Theory 2
PDA3415: Surface Prep 1
PDA3420: Surface Prep 2
PDA3425: Colour
PDA3430: Painting Theory
PDA3435: Painting Application 1
PDA3440: Painting Application 2

PDA3445: Spraying Theory
PDA3450: Spraying Procedures
PDA3455: Trade Math
PDA3460: Trade Geometry
PDA3465: PDA Practicum A
PDA3470: PDA Practicum B
PDA3475: PDA Practicum C
PDA3480: PDA Practicum D
PDA3900: Apprenticeship Safety

All Painter and Decorator Apprenticeship (PDA) courses must be delivered by a journeyperson painter and decorator.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Parts Technician First Period	
PTA3400: Material Handling	PTA3440: Communication
PTA3405: Storage & Packing	PTA3445: Customer Service
PTA3410: Shipping & Returns	PTA3450: PTA Practicum A
PTA3415: Merchandising	PTA3455: PTA Practicum B
PTA3420: Measurement & Stock	PTA3460: PTA Practicum C
PTA3425: Electrical Basics	PTA3465: PTA Practicum D
PTA3430: Suspension & Wheels	PTA3900: Apprenticeship Safety
PTA3435: Steering & Brakes	

All Parts Technician Apprenticeship (PTA) courses must be delivered by a journeyperson parts technician.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Plumber First Period	
PLA3406: Hand and Power Tools	PLA3456: Interpreting Drawings
PLA3411: Welded Pipe and Fittings	PLA3461: Plumbing Calculations
PLA3416: Plastic Pipe and Tubes	PLA3466: Piping Offsets and Density
PLA3421: Threaded and Grooved Pipe	PLA3471: Principles of Pressure, Atmosphere, and Electricity
PLA3426: Tubes, Tubing, and Valves	
PLA3431: Install and Test Piping Systems	PLA3480: PLA Practicum A
PLA3436: Welding Safety and Fabrication	PLA3485: PLA Practicum B
PLA3441: Bracket and Spool Fabrication	PLA3490: PLA Practicum C
PLA3446: Brazing and Soldering	PLA3495: PLA Practicum D
PLA3451: Sketching and Drawing	PLA3900: Apprenticeship Safety

All Plumber Apprenticeship (PLA) courses must be delivered by a journeyperson plumber.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top

Welder First Period	
WDA3401: Tools & Equipment	WDA3427: Mild Steel Pipe Welds
WDA3403: Oxyfuel & Plasma Arc	WDA3429: Aluminum & SAW
WDA3406: Electricity & Metals	WDA3432: Welding Math 1
WDA3407: Symbols & Drawings	WDA3437: Welding Math 2
WDA3408: Weld Faults	WDA3445: WDA Practicum A
WDA3411: Wire-Feed Welding	WDA3450: WDA Practicum B
WDA3413: Gases & Maintenance	WDA3455: WDA Practicum C
WDA3415: GMAW on Mild Steel	WDA3460: WDA Practicum D
WDA3420: FCAW & MCAW	WDA3900: Apprenticeship Safety
WDA3423: Mild Steel Welds	

All Welder Apprenticeship (WDA) courses must be delivered by a journeyperson welder.

See the conditions of the Alberta Apprenticeship Program in the section titled "Apprenticeship Pathways."

For more information, visit Tradesecrets.

Return_to_Top