

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 footnote¹.

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.

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[International Bowhunter Education Program](#)

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Trades, Manufacturing & Transportation (TMT) Credentialed Pathways

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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 first period of technical training. 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 journeyman 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](#).

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

[Auto Body Technician](#)¹

[Automotive Service Technician](#)¹

[Baker](#)¹

[Cabinetmaker](#)¹

[Carpenter](#)¹

[Communication Technician](#)¹

[Cook](#)¹

[Electrician](#)¹

[Hairstylist](#)¹

[Heavy Equipment Technician](#)¹

[Industrial Mechanic \(Millwright\)](#)¹

[Instrumentation and Control Technician](#)¹

[Insulator](#)¹

[Landscape Horticulturist](#)¹

[Painter and Decorator](#)¹

[Parts Technician](#)¹

[Pipe Trades](#)¹

[Welder](#)¹

Credentialed Pathways Descriptions

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

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](#).

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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](#).

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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.

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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](#).

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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, 2016, or 2019).

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](#).

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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, 2016, or 2019).

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](#).

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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, 2016, or 2019).

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](#).

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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, or 2019).

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](#).

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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](#).

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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](#).

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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.

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Health, Recreation & Human Services (HRH) Credentialed Pathways

Athletic Injury Management

REC1020: Injury Management 1

An Athletic Injury Management 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](#).

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Canadian Academy of Travel and Tourism (CATT) Level I

TOU1010: The Tourism Sector
TOU1030: Quality Guest Service

TOU1060: The Travel Industry
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](#).

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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)

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](#).

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Certified Coach – National Coaching Certification Program (NCCP)

REC1020: Injury Management 1	REC2120: Coaching 1
REC2010: Nutrition for Recreation Activities & Sport	REC3120: Coaching 2
REC2060: Leadership in Recreation & Sport	

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](#).

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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.

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Early Childhood Educator – Level 1

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

The Level 1 Early Childhood Educator 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 [Early childhood educator certification](#).

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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* Certification 4.1 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](#).

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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](#).

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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 [Recognized food safety courses in Alberta](#).

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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](#).

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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](#).

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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

Fitness Alberta offers Group Exercise certification with a specialization in Aquatic Exercise for individuals to lead aquatic exercise classes for participants in facilitated exercise sessions.

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

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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

Fitness Alberta offers Group Exercise certification 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 [Fitness Alberta](#).

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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)

Fitness Alberta offers Group Exercise certification 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 [Fitness Alberta](#).

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Group Exercise Leader – Resistance 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	REC3080: Resistance Training Leadership
HSS1020: Nutrition & Wellness	

Fitness Alberta offers Group Exercise certification with a specialization in Resistance Exercise for individuals to lead exercise classes for participants in facilitated exercise sessions.

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

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Health Care Aide

HCA3401: Role and Responsibilities (3 credits)
 HCA3406: The Human Body, Health, and Chronic Illness (3 credits)
 HCA3411: Communication and Documentation
 HCA3416: Providing Person-centred Care and Comfort (4 credits)
 HCA3421: Clinical Placement 1 (3 credits)
 HCA3426: Meeting Complex Care Needs (5 credits)
 HCA3431: Special Activities for Clients (5 credits)
 HCA3436: Clinical Placement 2 (6 credits)
 HCA3441: Consolidated Clinical Placement (3 credits)

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 program](#).

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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](#).

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Medical First Responder

HCS1080: Cardiovascular System	HCS3020: First Responder 1
HCS2020: First Aid/CPR with AED	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](#).

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Physical Education and Recreation

REC3015: Flexibility Training	REC3085: Olympic Weightlifting
REC3020: Injury Management 3	REC3090: Aquatic Fitness Training Leadership
REC3025: Cardiovascular Training	REC3100: Fitness Leadership for the Older Adult
REC3030: Speed & Agility	REC3110: Group Exercise Leadership
REC3040: Training & Conditioning	REC3120: Coaching 2
REC3045: Periodization	REC3130: Officiating
REC3050: Sport Psychology 3	REC3140: Sport & Society
REC3060: Ever Active Kids Leadership	REC3910: REC Project D
REC3070: Fitness Instruction Leadership Principles	REC3920: REC Project E
REC3080: Resistance Training Leadership	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 Kinesiology, Sport, and Recreation](#) at the University of Alberta.

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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](#).

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Sport Taping and Strapping

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

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](#).

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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](#).

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Media, Design & Communication Arts (MDC) Credentialed Pathways

Adobe Certified Professional (ACP) in Visual Design Using Photoshop

COM1005: Visual Composition	COM2035: Raster Graphics 1
COM1035: Graphics Tools	COM3035: Raster Graphics 2

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

For more information, visit [Adobe Certified Associate program](#).

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Adobe Certified Professional (ACP) in Multiplatform Animation Using Adobe Animate

COM1005: Visual Composition	COM2055: Web Design 2
COM1015: Media	COM3055: Rich Media – Basics
COM1055: Web Design 1	COM3065: Rich Media – Programming

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

For more information, visit [Adobe Certified Associate - Animate](#).

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Adobe Certified Professional (ACP) in Web Authoring Using Adobe Dreamweaver

COM1005: Visual Composition	COM2055: Web Design 2
COM1055: Web Design 1	COM3075: Cascading Style Sheets

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

For more information, visit [Adobe Certified Associate program](#).

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Adobe Certified Professional (ACP) in Digital Video Using Adobe Premiere Pro

COM1005: Visual Composition	COM2125: AV Postproduction 1
COM1105: Audio/Video	COM3125: AV Postproduction 2

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

For more information, visit [Adobe Certified Associate program](#).

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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](#).

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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](#).

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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](#).

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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](#).

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Trades, Manufacturing & Transportation (TMT) Credentialed Pathways

Power Engineering 5th Class

PEN3400: Safety & Codes	PEN3440: Refrigeration Theory
PEN3405: Applied Science	PEN3445: Heating & Cooling
PEN3410: Electricity & Welding	PEN3450: AC & Refrigeration
PEN3415: Plumbing & Piping	PEN3455: Pumps & Compression
PEN3420: Boiler Details	PEN3460: Water Treatment
PEN3425: Boiler Operation	PEN3465: PEN Practicum A
PEN3430: Heating Systems	PEN3470: PEN Practicum B
PEN3435: Human Comfort	

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.

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Power Engineering 4th Class

PEN3500: Math & Mechanics	PEN3565: Heating Boilers
PEN3505: Science Principles	PEN3570: Heating Systems
PEN3510: Foundations	PEN3575: System Controls
PEN3515: Safety	PEN3580: Refrigeration 1
PEN3520: Environmental Impact	PEN3585: Refrigeration 2
PEN3525: Materials & Welding	PEN3590: Air Conditioning 1
PEN3530: Boiler Construction	PEN3595: Air Conditioning 2
PEN3535: Draft, Valves & Gauges	PEN3600: Boiler Maintenance
PEN3540: Boiler Operation	PEN3605: PEN Practicum A
PEN3545: Engines & Turbines	PEN3610: PEN Practicum B
PEN3550: Pumps	PEN3615: PEN Practicum C
PEN3555: Electricity	PEN3620: PEN Practicum D
PEN3560: Instrumentation	

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.

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Apprenticeship Pathways

Agricultural Equipment Technician First Period

AEA3400: Tools & Materials	AEA3440: Hydraulic Systems
AEA3405: Welding Equipment	AEA3445: Farm Equipment 1
AEA3410: Electric Welding	AEA3450: Farm Equipment 2
AEA3415: Electrical Fundamentals	AEA3455: Farm Equipment 3
AEA3420: Current & Resistance	AEA3460: Power Transmission
AEA3425: Batteries & Diagnostics	AEA3465: Gears & Axles
AEA3430: Electrical Diagnostics	AEA3900: Apprenticeship Safety
AEA3435: Hydraulic Fundamentals	

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

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

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Auto Body Technician First Period

ABA3401: Workplace Skills	ABA3415: Fillers
ABA3402: Tools, Batteries & Detailing	ABA3420: Surface Preparation
ABA3405: Removal & Installation 1	ABA3425: Masking
ABA3406: Removal & Installation 2	ABA3430: Undercoating
ABA3410: Substrates	ABA3900: Apprenticeship Safety

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

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

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Automotive Service Technician First Period

ASA3400: Basic Tools & Materials	ASA3430: Alignment Procedures
ASA3402: Vehicle Service Information	ASA3435: Brake Fundamentals
ASA3405: Electrical Principles	ASA3440: Disc & Drum Brakes
ASA3410: Electrical Circuits	ASA3445: Brake System Repairs
ASA3412: Electrical Service	ASA3450: Wheels & Drive Lines
ASA3415: Frames & Undercarriage	ASA3452: Maintenance & Trailers
ASA3420: Steering Systems	ASA3900: Apprenticeship Safety
ASA3425: Suspension Systems	

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

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

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Baker First Period

BAK3400: Tools & Equipment	BAK3435: Cookies
BAK3405: Raised Goods Theory 1	BAK3440: Quick Breads
BAK3410: Raised Goods Practical 1	BAK3445: Pastries
BAK3415: Raised Goods Theory 2	BAK3450: Custards & Fillings
BAK3420: Raised Goods Practical 2	BAK3455: Icings & Piping
BAK3425: Baking & Frying	BAK3460: Baking Math
BAK3430: Cakes	BAK3900: Apprenticeship Safety

All Baker Apprenticeship (BAK) courses must be delivered by a journeyman baker.

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

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Cabinetmaker First Period

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

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

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

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Carpenter First Period

CRA3402: Building Materials	CRA3442: Foundations Practical
CRA3407: Hand Tools Theory	CRA3447: Floor Frames
CRA3412: Hand Tools Practical	CRA3452: Sketching & Drawing
CRA3417: Portable Power Tools	CRA3457: Drawing Principles
CRA3422: Stationary Tools	CRA3462: Math Concept
CRA3427: Accessory Tools	CRA3467: Estimating
CRA3432: Building Foundations	CRA3900: Apprenticeship Safety
CRA3437: Foundations Theory	

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

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

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Communication Technician First Period

CTA3400: Electricity Fundamentals	CTA3430: Telephone Basics
CTA3405: AC/DC	CTA3435: Switching & Equipment
CTA3410: Basic Electricity	CTA3440: Network Fundamentals
CTA3415: Mathematics	CTA3445: Network Devices & IP
CTA3420: Outside Cabling	CTA3900: Apprenticeship Safety
CTA3425: Inside Cabling	

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

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

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Cook First Period

CKA3401: Kitchen Orientation	CKA3441: Fruits & Vegetables
CKA3406: Kitchen Mathematics	CKA3446: Starches & Salads
CKA3411: Meats & Seafood 1	CKA3451: Breakfast & Dairy
CKA3416: Meats & Seafood 2	CKA3456: Introduction to Baking
CKA3421: Cooking Proteins 1	CKA3461: Breads & Cookies
CKA3426: Cooking Proteins 2	CKA3466: Pies & Fillings
CKA3431: Stocks & Soups	CKA3900: Apprenticeship Safety
CKA3436: Thickeners & Sauces	

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

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

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Electrician First Period

ETA3400: Electrical Principles	ETA3440: Relays & Controls
ETA3405: Electrical Concepts	ETA3445: Switches & Alarms
ETA3410: Resistive Circuits	ETA3450: Introduction to Code
ETA3415: Edison 3-Wire Systems	ETA3455: Conductors & Grounding
ETA3420: Power & Efficiency	ETA3460: Wiring & Installation
ETA3425: Batteries & Magnetism	ETA3465: Diagrams & Drawings
ETA3430: Meters & Connections	ETA3900: Apprenticeship Safety
ETA3435: Switching Circuits	

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

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

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Hairstylist First Period

HSA3406: Work Environment	HSA3461: Razor Cutting and Shear Cutting
HSA3411: Head Anatomy and Physiology	HSA3466: Clipper Cutting
HSA3416: Haircutting Tools and Equipment	HSA3471: Texturizing Techniques
HSA3421: Consultation and Draping	HSA3476: Various Haircuts
HSA3426: Salon Operations	HSA3481: Customizing Techniques
HSA3431: Hair and Scalp Analysis	HSA3486: Haircutting Techniques
HSA3436: Shampoo and Condition Hair	HSA3491: Facial and Nape Hair Theory
HSA3441: Principles of Haircutting and Styles	HSA3496: Facial and Nape Hair Trimming and Removal
HSA3446: Customizing Haircuts	HSA3501: Style Hair
HSA3451: Demonstrate the Principles of Haircutting	HSA3900: Apprenticeship Safety
HSA3456: Demonstrate Haircutting on Various Types of Hair	

Hairstylist Second Period

HSA3506: Styling, Perming, and Colouring Tools and Equipment	HSA3556: Chemical Relaxers 1
HSA3511: Drying Hair	HSA3561: Chemical Relaxers 2
HSA3516: Setting Wet Hair	HSA3566: Colouring Hair 1
HSA3521: Styling Dry Hair	HSA3571: Colouring Hair 2
HSA3526: Updo and Upstyle Styling Techniques	HSA3576: Colouring Hair 3
HSA3531: Style Hair Using Accessories	HSA3581: Colouring Virgin Hair and Regrowth
HSA3536: Hair Wrapping 1	HSA3586: Colouring Hair Using Special Effects
HSA3541: Hair Wrapping 2	HSA3591: Lighten Virgin Hair and Regrowth
HSA3546: Chemical Waving 1	HSA3596: Lighten Hair Using Special Effects
HSA3551: Chemical Waving 2	HSA3601: Colour Corrections
	HSA3606: Specialized Services and Standards

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

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Heavy Equipment Technician First Period

HEA3400: Basic Tools & Materials	HEA3440: Electrical Theory
HEA3405: Bearings & Seals	HEA3445: Electrical Service
HEA3410: Frames & Suspension	HEA3450: Electronics
HEA3415: Wheels & Preventive Maintenance	HEA3455: Air Brake Fundamentals
HEA3420: Trailer Systems	HEA3460: Air Brake Mechanics
HEA3425: Brake Fundamentals	HEA3465: Air Brake Service
HEA3430: Brake Service & Repair	HEA3900: Apprenticeship Safety
HEA3435: Hydraulic Systems	

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

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

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Industrial Mechanic (Millwright) First Period

MWA3401: Hand Tools	MWA3426: Manual Machines 2
MWA3405: Measurement	MWA3431: Machining Operations 1
MWA3406: Power Tools	MWA3436: Machining Operations 2
MWA3411: Technical Drawings	MWA3441: Machining Operations 3
MWA3416: Layouts	MWA3446: Machining Operations 4
MWA3420: Fasteners	MWA3451: Machine Installation
MWA3421: Manual Machines 1	MWA3900: Apprenticeship Safety

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

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

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Instrumentation and Control Technician First Period

ISA3400: Tools & Equipment	ISA3440: Pressure Measurement
ISA3405: Tube Practice	ISA3445: Calibration
ISA3410: Pipe Practice	ISA3450: Control Elements
ISA3415: Electrical Theory	ISA3455: Control Valves
ISA3420: Resistive Circuits	ISA3460: Applied Math
ISA3425: Power & Efficiency	ISA3465: Applied Physics
ISA3430: Inductance & Capacitance	ISA3900: Apprenticeship Safety
ISA3435: Hazards & Regulations	

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

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

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Insulator First Period

INA3400: Introduction & Safety	INA3430: Polystyrenes & Wraps
INA3405: Asbestos Awareness	INA3435: Wool & Fibreglass
INA3410: Bonding	INA3440: Cellular Glass
INA3415: Pipe Insulation	INA3445: Mathematics
INA3420: Tools & Materials	INA3450: Blueprints
INA3425: Fibres & Foam	INA3900: Apprenticeship Safety

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

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

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Landscape Horticulturist First Period

LGA3406: Equipment and Tools	LGA3451: Soil Management 1
LGA3411: Vehicle Transportation and Operation	LGA3456: Soil Management 2
LGA3416: Site Maintenance	LGA3461: Soilless Growing Media
LGA3425: Plant Taxonomy	LGA3466: Turfgrass
LGA3435: Botany 1	LGA3471: Fertilization
LGA3440: Botany 2	LGA3473: Exterior Softscape Maintenance
LGA3441: Ecosystems	LGA3900: Apprenticeship Safety
LGA3446: Environmental Stewardship and Water Quality	

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

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

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Painter and Decorator First Period

PDA3400: Material Selection	PDA3435: Painting Application 1
PDA3405: Surface Prep Theory 1	PDA3440: Painting Application 2
PDA3410: Surface Prep Theory 2	PDA3445: Spraying Theory
PDA3415: Surface Prep 1	PDA3450: Spraying Procedures
PDA3420: Surface Prep 2	PDA3455: Trade Math
PDA3425: Colour	PDA3460: Trade Geometry
PDA3430: Painting Theory	PDA3900: Apprenticeship Safety

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

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

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Parts Technician First Period

PTA3400: Material Handling	PTA3430: Suspension & Wheels
PTA3405: Storage & Packing	PTA3435: Steering & Brakes
PTA3410: Shipping & Returns	PTA3440: Communication
PTA3415: Merchandising	PTA3445: Customer Service
PTA3420: Measurement & Stock	PTA3900: Apprenticeship Safety
PTA3425: Electrical Basics	

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

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

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Pipe Trades (Gasfitter, Plumber, Sprinkler Systems Installer, and Steamfitter-Pipefitter) First Period

PLA3406: Hand and Power Tools	PLA3446: Brazing and Soldering
PLA3411: Welded Pipe and Fittings	PLA3451: Sketching and Drawing
PLA3416: Plastic Pipe and Tubes	PLA3456: Interpreting Drawings
PLA3421: Threaded and Grooved Pipe	PLA3461: Pipe Trades Calculations
PLA3426: Tubes, Tubing, and Valves	PLA3466: Piping Offsets and Density
PLA3431: Install and Test Piping Systems	PLA3471: Principles of Pressure, Atmosphere, and Electricity
PLA3436: Welding Safety and Fabrication	PLA3900: Apprenticeship Safety
PLA3441: Bracket and Spool Fabrication	

All Pipe Trades Apprenticeship (PLA) courses must be delivered by an individual with journeyperson certification in any of the pipe trades (i.e., gasfitter, plumber, sprinkler systems installer, and steamfitter-pipefitter).

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

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Welder First Period

WDA3401: Tools & Equipment	WDA3420: FCAW & MCAW
WDA3403: Oxyfuel & Plasma Arc	WDA3423: Mild Steel Welds
WDA3406: Electricity & Metals	WDA3427: Mild Steel Pipe Welds
WDA3407: Symbols & Drawings	WDA3429: Aluminum & SAW
WDA3408: Weld Faults	WDA3432: Welding Math 1
WDA3411: Wire-Feed Welding	WDA3437: Welding Math 2
WDA3413: Gases & Maintenance	WDA3900: Apprenticeship Safety
WDA3415: GMAW on Mild Steel	

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

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

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