



CTS Credentialed Pathways

A pathway is a selection of courses to give students the opportunity to explore and acquire the attitudes, skills and knowledge for future careers that are relevant to their interests. Pathways can work toward goals that may include university, college, apprentice training, or moving directly into the workforce.

Credentialed pathways are a series of specific courses selected to help the student achieve a credential or credit awarded by a recognized community or industry organization or post-secondary institution.

This document has been provided to assist teachers in the delivery and completion of CTS credentialed pathways in Alberta schools. All credential/journeyperson opportunities are external to Alberta Education, and it is the responsibility of the student/teacher/school to ensure that the requirements of the credentialing organization have been addressed.

Sections of this document are based on pre-implementation draft curriculum documents (pending ministerial approval).

Pathway Menu

Select a pathway listed below to see all the courses required/recommended to complete that particular pathway. Pathways are listed in alphabetical order.

BIT Credentialed Pathways

CompTIA A+

CompTIA Network+

Computer Science – five 3000-level credits (requirement for select bachelor programs at the University of Alberta and University of Calgary)

Focus on Information Technology (FIT)

Microsoft Certified Application Specialist in Access 2007

Microsoft Certified Application Specialist in Excel 2007

Microsoft Certified Application Specialist in PowerPoint 2007

Microsoft Certified Application Specialist in Word 2007

HRH Credentialed Pathways

Aquatic Exercise Leader

Athletic Injury Management

Basic Interpreter

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

Child Care First Aid
Child Development Assistant
Cook First Period Apprenticeship
emerit Food and Beverage Manager
emerit Food and Beverage Server
emerit Tourism Essentials
Ever Active Aging Leader
Ever Active Kids Leader
Fitness for the Older Adult Leader
Foundations of Athletic Therapy
Foundations of Mentoring
Group Exercise Leader
Hairstylist Journey person
Interactive Group Management
Leave No Trace Trainer
Medical First Responder
Resistance Training Leader
Sports Nutrition
Sport Taping and Strapping
Standard First Aid with CPR C and AED
Trained Coach

MDC Credentialed Pathways

Adobe Certified Expert (ACE) in Illustrator CS4
Adobe Certified Expert (ACE) in InDesign CS4
Adobe Certified Expert (ACE) in Photoshop CS4
Costume Sewing Assessment Level I
Level II (Stitcher Advanced)

NAT Credentialed Pathways

Alberta Conservation and Hunter Education Program
Alberta Fishing Education Program
International Bowhunter Education Program
Pleasure Craft Operator Card

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

TMT Credentialed Pathways

Auto Service Technician First Period Apprenticeship

Carpenter First Period Apprenticeship

Welder First Period Apprenticeship

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



Credentialed Pathways

Adobe Certified Expert (ACE) in Illustrator CS4

CTS courses required

COM1005: Visual Composition	COM2045: Vector Graphics 1
COM1035: Graphics Tools	COM3045: Vector Graphics 2

An Adobe Certified Expert (ACE) is a person who has demonstrated a professional level in proficiency with one or more Adobe software products. To become an ACE, you must pass one or more product-specific proficiency exams and agree to the ACE terms and conditions.

Students who have completed the outcomes in COM2045: Vector Graphics 1 and COM3045: Vector Graphics 2 using Adobe Illustrator CS4 will have met the objectives specified by Adobe Certified Expert (ACE) for certification in Adobe Illustrator CS4.

For more information, visit www.adobe.com/support/certification/ace.html.

Adobe Certified Expert (ACE) in InDesign CS4

CTS courses required

COM1005: Visual Composition	COM2025: Electronic Layout & Publishing 1
COM1025: Typography	COM3025: Electronic Layout & Publishing 2

An Adobe Certified Expert (ACE) is a person who has demonstrated a professional level in proficiency with one or more Adobe software products. To become an ACE, you must pass one or more product-specific proficiency exams and agree to the ACE terms and conditions.

Students who have completed the outcomes in COM2025: Electronic Layout & Publishing 1 and COM3025: Electronic Layout & Publishing 2 using Adobe InDesign CS4 will have met the objectives specified by Adobe Certified Expert (ACE) for certification in Adobe InDesign CS4.

For more information, visit www.adobe.com/support/certification/ace.html.

Adobe Certified Expert (ACE) in Photoshop CS4

CTS courses required

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

An Adobe Certified Expert (ACE) is a person who has demonstrated a professional level in proficiency with one or more Adobe software products. To become an ACE, you must pass one or more product-specific proficiency exams and agree to the ACE terms and conditions.

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

Students who have completed the outcomes in COM2035: Raster Graphics 1 and COM3035: Raster Graphics 2 using Adobe Photoshop CS4 will have met the objectives specified by Adobe Certified Expert (ACE) for certification in Adobe Photoshop CS4.

For more information, visit www.adobe.com/support/certification/ace.html.

Alberta Conservation and Hunter Education Program

CTS courses required	
WLD1070: Hunting & Game Management Theory	

Alberta Conservation and Hunter Education Program Student Certificates and wallet ID card may be awarded to students who successfully meet the outcomes of Hunting & Game Management Theory, and receive at least 70% on the Alberta Conservation and Hunter Education Exam.

For more information, visit www.aheia.com.

Aquatic Exercise Leader

CTS courses required	
HSS1010: Health Services Foundations	REC3040: Training & Conditioning
HSS1020: Nutrition & Wellness	REC3070: Fitness Instruction Leadership Principles
HCS1080: Cardiovascular System	REC3090: Aquatic Fitness Training Leadership
HCS1050: Musculoskeletal System	
REC3010: Human Movement	

The Alberta Fitness Leadership Certification Association (AFLCA) offers Aquatic Exercise certification to lead aquatic exercise classes in the community.

For more information, visit www.provincialfitnessunit.ca.

Alberta Fishing Education Program

CTS courses required	
WLD1080: Angling & Fish Management Theory	

Alberta Fishing Education Program Student Certificates may be awarded to students who successfully meet the outcomes of Angling and Fish Management Theory, and receive at least 70% on the Alberta Fishing Education Exam.

For more information, visit www.aheia.com.

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

Athletic Injury Management

CTS courses required

REC1020: Injury Management 1

Sports Medicine Council of Alberta

For more information, visit www.sportmedab.ca.

Auto Service Technician First Period Apprenticeship

CTS courses required

ASA3400: Basic Tools & Materials	ASA3435: Braking Systems 1
ASA3405: Electrical Fundamentals	ASA3440: Braking Systems 2
ASA3410: Electrical Circuits & Diagnosis	ASA3445: Braking Systems 3
ASA3415: Frames, Suspension & Steering Linkages	ASA3450: Drivelines & Introductory Welding
ASA3420: Manual & Power Steering Systems	ASA3455: ASA Practicum Course A
ASA3425: Steering Angles, Columns & Restraint Systems	ASA3460: ASA Practicum Course B
ASA3430: Wheel Alignment Procedures	ASA3465: ASA Practicum Course C
	ASA3470: ASA Practicum Course D

Credentialed pathways can provide students with the ability to achieve credentials or articulations. These pathways have been validated to align with post-secondary and industry standards. For students to obtain the desired credential/articulation, all specified course outcomes must be met. Students may take these courses for high school credit only, or they may choose to write the external articulation exam for first period apprenticeship.

This program is intended to provide students who successfully complete the specified CTS credentialed pathways courses with certain credit toward the Alberta Apprenticeship program. Upon graduation from high school and with the support of an employer, a student may then enter into the post-secondary apprenticeship program as a first period apprentice with advanced standing.

Conditions of the agreement:

- all students must have their own set of first period apprenticeship Individual Learning Modules (ILMs) for study
- all identified CTS courses in the Apprenticeship and Industry Training (AIT) list must be delivered and assessed by a certified journeyman instructor in the trade offered
- supervising teacher(s), principal and journeyman instructor(s) responsible for the program must verify the successful completion of all the required courses
- candidates will only be eligible for apprenticeship program accreditation and challenge appropriate exam(s) upon presentation of:
 - a completed 'Record of Courses Completed' form, and
 - proof of trade entrance educational requirements

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

- candidates who complete only the technical training may be credited with the first period of formal technical instruction and will then be eligible to challenge the first period theory exam
- candidates who successfully complete both the technical training and practical experience may be credited with the first period of formal technical instruction and will then be eligible to challenge both the first period theory and practical exams
- students eligible for accreditation will have fees for the apprenticeship exam waived if an [application](#) is made within three years of completing the CTS program.

For more information, visit www.tradesecrets.gov.ab.ca.

Basic Interpreter

CTS courses required

TOU1010: The Tourism Sector	TOU2120: Adventure & Ecotourism 2
TOU1120: Adventure & Ecotourism 1	

The Interpretive Guides Association – Basic Interpreter certification may be awarded to students who meet the competencies of TOU2120: Adventure & Ecotourism 2 with the final exam being delivered by an Interpretive Guides Association Trainer.

For more information, visit www.interpretiveguides.org.

Carpenter First Period Apprenticeship

CTS courses required

CRA3400: Introduction to Work Site Safety	CRA3430: Construction Machines, Tools & Equipment
CRA3405: Basic Hand, Power Tools & Safety	CRA3435: Blueprint Interpretation
CRA3410: Construction Materials & Processes	CRA3440: CRA Practicum Course A
CRA3415: Site Preparation & Floor Systems	CRA3445: CRA Practicum Course B
CRA3420: Foundations & Concrete Structures	CRA3450: CRA Practicum Course C
CRA3425: Blueprint Drawings & Sketching	CRA3455: CRA Practicum Course D

This pathway has been validated to align with post-secondary and industry standards. For students to obtain the desired credential/articulation, all specified course outcomes must be met. Students may take these courses for high school credit only, or they may choose to write the external articulation exam for first period apprenticeship.

This program is intended to provide students who successfully complete the specified CTS credentialed pathways courses with certain credit toward the Alberta Apprenticeship program. Upon graduation from high school, and with the support of an employer, a student may then enter into the post-secondary apprenticeship program as a first period apprentice with advanced standing.

Conditions of the agreement:

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

- all students must have their own set of first period apprenticeship Individual Learning Modules (ILMs) for study
- all identified CTS courses in the Apprenticeship and Industry Training (AIT) list must be delivered and assessed by a certified journeyman instructor in the trade offered
- supervising teacher(s), principal and journeyman instructor(s) responsible for the program must verify the successful completion of all the required courses
- completion of Trade Math (or equivalent) and Construction Advanced Trade Math (or equivalent)
- candidates will only be eligible for apprenticeship program accreditation and challenge appropriate exam(s) upon presentation of:
 - a completed ‘Record of Courses Completed’ form, and
 - proof of trade entrance educational requirements
- candidates who complete only the technical training may be credited with the first period of formal technical instruction and will then be eligible to challenge the first period theory exam
- candidates who successfully complete both the technical training and practical experience may be credited with the first period of formal technical instruction and will then be eligible to challenge both the first period theory and practical exams
- students eligible for accreditation will have fees for the apprenticeship exam waived if an [application](#) is made within three years of completing the CTS program.

For more information, visit www.tradesecrets.gov.ab.ca.

Child Care First Aid

CTS courses required
HCS3040: Child Care First Aid

St. John Ambulance offers First Aid in Child Care Certificate designed for child care workers and other caregivers working with children. The certification includes CPR level C.

For more information, visit www.sja.ca.

Child Development Assistant

CTS courses required	
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	

Alberta Children and Youth Services

For more information, visit www.child.alberta.ca.

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

Computer Science – five 3000-level credits (requirement for select bachelor programs at the U of A and U of C)

CTS courses required	
CSE3010: Computer Science 3	CSE3210: Server-side Scripting 1
CSE3020: Computer Science 4	CSE3240: Robotics Programming 3
CSE3110: Iterative Algorithm 1	CSE3310: Recursive Algorithms
CSE3120: Object-oriented Programming 1	CSE3320: Dynamic Data Structures 1
CSE3130: Object-oriented Programming 2	CSE3330: Dynamic Data Structures 2
CSE3140: Second Language Programming 2	CSE3340: Dynamic Data Structures 3

Five of any of the listed courses can be used as a science requirement for the University of Alberta or the University of Calgary.

CompTIA A+

CTS courses required	
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, safety and environmental issues and communication and professionalism.

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

For more information, visit www.comptia.org/home.aspx.

CompTIA Network+

CTS courses required	
NET2030: Network Structures	NET3050: Network Operating Systems
NET2040: Network Media & Devices	NET3070: Routing Fundamentals
NET2050: Open System Interconnection	NET3060: Wide Area Networks
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 a CompTIA A+ certification.

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

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

For more information, visit www.comptia.org/home.aspx.

Cook First Period Apprenticeship

CTS courses required	
CKA3400: Kitchen Orientation*	CKA3470: Yeast Products*
CKA3405: Kitchen Orientation – Food Service*	CKA3475: Yeast Products – Food Service*
CKA3410: Culinary Fundamentals*	CKA3480: Saucier 1*
CKA3420: Breakfast Foods*	CKA3490: Saucier 2*
CKA3425: Breakfast – Food Service*	CKA3495: Saucier – Food Service*
CKA3430: Entremetier*	CKA3500: Meat Cookery*
CKA3435: Entremetier – Food Service*	CKA3515: Meat Cookery – Food Service*
CKA3440: Pantry – Salads & Sandwiches*	CKA3520: Poultry, Fish & Seafood*
CKA3445: Pantry – Food Service*	CKA3525: Poultry, Fish & Seafood – Food Service*
CKA3450: Bakeshop*	HCS2020: First Aid/CPR with AED
CKA3465: Bakeshop – Food Service*	Trade Math or equivalent

This program is intended to provide students who successfully complete the specified CTS credentialed pathways courses, related to the Cook apprenticeship, with certain credit toward the Alberta Apprenticeship program. Upon graduation from high school, and with the support of an employer, a student may then enter into the post-secondary apprenticeship program as a first period apprentice with advanced standing.

Students who successfully complete 24 required CTS courses related to the Cook apprenticeship may be credited, upon successfully challenging the appropriate theory exams, with the first periods of formal instruction and 450 hours of on-the-job training. Additional logged hours earned within the industry toward the trade may also be credited upon the recommendation of the employer.

Conditions of the agreement:

- all CTS courses identified with * in the Apprenticeship and Industry Training (AIT) list must be delivered and assessed by a certified journeyperson cook instructor
- in order to challenge the first period exam, candidates must possess a Food Safe Provincial Certificate and an approved First Aid Certificate
- supervising teacher(s), principal and journeyman instructor(s) responsible for the program must verify the successful completion of all the required courses
- completion of Trade Math (or equivalent)
- candidates will only be eligible for apprenticeship program accreditation and challenge appropriate exam(s) upon presentation of:
 - a completed ‘Record of Courses Completed’ form, and
 - proof of trade entrance educational requirements

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

- candidates must successfully complete both the technical training and practical experience to be credited with the first period of formal technical instruction and be eligible to challenge the first period theory exam
- students eligible for accreditation in the Cook apprenticeship pathway must apply for and challenge the first period apprenticeship exam within three years of completing their CTS program. After three years, students will be accepted into the apprenticeship program as normal apprentices with a requirement to attend first period technical training
- students eligible for accreditation will have fees for the apprenticeship exam waived if an [application](#) is made within three years of completing the CTS program.

See the [‘Record of Courses Completed’](#) form that the student must present for apprenticeship accreditation and proof of eligibility to challenge first period exam(s).

For more information, visit www.tradesecrets.gov.ab.ca.

***Required courses must be delivered and assessed by a Journeyperson Cook.**

Costume Sewing Assessment Level I

CTS courses required	
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 Costume Sewing Assessment Level 1 Exam to become a permit in the costume department. Additional information on this pathway is available through the International Alliance of Theatrical Stage Employees (IATSE) Local 212 Education Coordinator.

For more information, visit www.iatse212.com.

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

emerit Food and Beverage Manager

CTS courses required

TOU1010: The Tourism Sector

TOU3020: Food & Beverage Manager

emerit Level 1 occupational knowledge component of the Food and Beverage Manager occupational certification may be awarded to students who successfully meet the outcomes of the credentialing agency. The *emerit* Food and Beverage Manager is a certification available from Canadian Tourism Human Resource Council (CTHRC) *emerit* Tourism Training and Certification.

For more information, visit <http://cthrc.ca>.

emerit Food and Beverage Server

CTS courses required

TOU1010: The Tourism Sector

FOD1010: Foods Basics or CKA3400: Kitchen
Orientation*

* **Course must be delivered and assessed by a Journeyperson Cook.**

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 Canadian Tourism Human Resource Council (CTHRC) *emerit* Tourism Training and Certification.

For more information, visit <http://cthrc.ca>.

emerit Tourism Essentials

CTS courses required

TOU1010: The Tourism Sector

TOU3000: Tourism Essentials

The *emerit* occupational knowledge component for all occupation-specific certifications may be awarded to students who successfully meet the outcomes of the credentialing agency. The *emerit* Tourism Essentials is a certification available from Canadian Tourism Human Resource Council (CTHRC) *emerit* Tourism Training and Certification.

For more information, visit <http://cthrc.ca>.

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

Ever Active Aging Leader

CTS courses required	
HSS1010: Health Services Foundations	HCS2020: First Aid/CPR with AED
HCS1050: Musculoskeletal System	REC2070: Ever Active Aging Leadership
HCS1080: Cardiovascular System	

The Alberta Fitness Leadership Certification Association (AFLCA) offers certification as an Ever Active Aging Leader to individuals interested in working with Active Living programs in seniors' lodges.

For more information, visit www.provincialfitnessunit.ca.

Ever Active Kids Leader

CTS courses required	
REC2060: Leadership in Recreation & Sport	REC3060: Ever Active Kids Leadership
HCS2020: First Aid/CPR with AED	

The Alberta Fitness Leadership Certification Association (AFLCA) offers certification as an Ever Active Kids Leader for individuals desiring to work in recreation settings with children and youth.

For more information, visit www.provincialfitnessunit.ca.

Fitness for the Older Adult Leader

CTS courses required	
HSS1010: Health Services Foundations	REC3010: Human Movement
HSS1020: Nutrition & Wellness	REC3040: Training & Conditioning
HCS1050: Musculoskeletal System	REC3070: Fitness Instruction Leadership Principles
HCS1080: Cardiovascular System	REC3100: Fitness Leadership for the Older Adult

The Alberta Fitness Leadership Certification Association (AFLCA) offers Older Adult Fitness Leader certification to lead exercise classes for older adults in the community.

For more information, visit www.provincialfitnessunit.ca.

Foundations of Athletic Therapy

CTS courses required	
REC1020: Injury Management 1	REC2020: Injury Management 2
HSS1010: Health Services Foundations	REC3010: Human Movement
HCS1050: Musculoskeletal System	REC3020: Injury Management 3
REC1030: Technical Foundations for Injury Management	REC3950: REC Advanced Practicum (see note below)

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

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

REC 3950: 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 www.aata.ca.

Foundations of Mentoring

CTS courses required	
HSS1050: Introduction to Mentorship	HSS3060: Extending the Mentoring Relationship
HSS2050: Becoming a Mentor	

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

For more information, visit www.albertamentors.ca.

Focus on Information Technology (FIT)

CTS courses required	
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 Communication Technology Council of Canada upon the successful completion of the following courses within Alberta Education's Career and Technology Studies courses. Students may also attain additional qualifications through the completion of A+ Certification or Java Certification and through completing a 200-hour Work Experience Placement.

For more information, visit www.ictc-ctic.ca.

Group Exercise Leader

CTS courses required	
HSS1010: Health Services Foundations	REC3110: Group Exercise Leadership
HSS1020: Nutrition & Wellness	REC3950: REC Advanced Practicum course (see note below)
HCS1050: Musculoskeletal System	
HCS1080: Cardiovascular System	
REC3010: Human Movement	
REC3040: Training & Conditioning	
REC3070: Fitness Instruction Leadership Principles	

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

The Alberta Fitness Leadership Certification Association (AFLCA) offers certification in group exercise leadership with a variety of special designations including Portable Equipment, Choreography, Step, Cycling and Mind/Body.

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 www.provincialfitnessunit.ca.

Hairstylist Journeyperson

CTS courses required for First Period	
COS1010: Personal & Professional Practices	HSA3470: Haircutting 5 – Creative Services
COS1020: Long Hair Design 1	HSA3475: Haircutting 6 – Creative Client Services
COS2010: Long Hair Design 2	HSA3485: Haircutting 7 – Current Trends Client Services
HSA3400: Hair & Scalp Care 1	HSA3495: Haircutting 8 – Male Client Services
HSA3410: Hair & Scalp Care 2	HSA3505: Hair Care & Cutting 1 – Client Services
HSA3420: Hair & Scalp Care 3	HSA3515: Hair Care & Cutting 2 – Client Services
HSA3425: Hair & Scalp Care 4 – Client Services	HSA3520: Chemical Texturizing 1
HSA3430: Hair Styling 1	HSA3570: Hair Colouring 1
HSA3440: Hair Styling 2	HSA3580: Hair Colouring 2 – Oxidative
HSA3445: Hair Styling 3 – Client Services	HSA3630: Historical Cosmetology
HSA3450: Haircutting 1	EST1020: Skin Care Practices
HSA3455: Haircutting 2 – Client Services	
HSA3460: Haircutting 3 – Advanced Techniques	
HSA3465: Haircutting 4 – Advanced Techniques Client Services	

CTS courses required for Second Period	
COS2000: Salon Design	HSA3590: Hair Colouring 4 – Decolourization
COS2210: Client Service & Sales 1	HSA3595: Hair Colouring 5 – Decolourization Client Services
COS3000: The Science of Cosmetology	HSA3600: Hair Colouring 6 – Colour Correction
COS3010: Professional Relationships	HSA3605: Hair Colouring 7 – Advanced Client Services 1
COS3020: Long Hair Design 3	HSA3615: Hair Colouring 8 – Advanced Client Services 2
COS3280: Client Service & Sales 2	HSA3620: Hair Goods & Extensions
HSA3530: Chemical Texturizing 2 – Cold Waving	HSA3625: Hair Goods & Extensions – Client Services
HSA3540: Chemical Texturizing 3 – Heat Assisted	HSA3640: Creative Cosmetology
HSA3550: Chemical Texturizing 4 – Designer	HSA3650: Competition Cosmetology
HSA3555: Chemical Texturizing 5 – Client Services	EST2050: Make-up
HSA3560: Hair Texturizing	EST2055: Make-up – Client Services
HSA3565: Hair Texturizing – Client Services	EST3040: Hair Removal
HSA3585: Hair Colouring 3 – Client Services	

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

Students who successfully complete 25 specified CTS courses related to the Hairstylist trade may be credited with the first period of formal instruction and 400 hours of on-the-job training toward the first period of apprenticeship. Students may also challenge the first period exam.

In addition, students who successfully complete 50 specified CTS courses may be credited with the first and second periods of formal instruction and 700 hours of on-the-job training toward the first period of apprenticeship. Students may also challenge the second period exam. Refer to the list of approved courses.

Conditions of the agreement:

- all CTS courses must be delivered and assessed by a certified journeyman instructor
- all candidates with 25 credits are required to complete 1000 hours of on-the-job training in the first period and 1400 hours in the second period of their apprenticeship in addition to the second period of formal instruction
- all candidates with 50 credits are required to complete 700 hours of on-the-job training in the first period and 1400 hours in the second period of their apprenticeship
- supervising teacher(s), principal and journeyman instructor(s) responsible for the program must verify the successful completion of all the required courses
- candidates will only be eligible to challenge appropriate exam(s) and receive apprenticeship program accreditation upon presentation of:
 - a completed 'Record of Courses Completed' form, and
 - proof of trade entrance educational requirements.

See the ['Record of Courses Completed'](#) form that the student must present with their [application](#).

For more information, visit www.tradesecrets.gov.ab.ca.

International Bowhunter Education Program

CTS course required
WLD1075: Bowhunting Education

International Bowhunter Education Program Student Certificates may be awarded to students who successfully meet the outcomes of Bowhunting Education, and receive at least 70% on the International Bowhunter Education Program Exam.

For more information, visit www.aheia.com.

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

Interpretive Group Management

CTS courses required	
TOU1010: The Tourism Sector	TOU2120: Adventure & Ecotourism 2
TOU1120: Adventure & Ecotourism 1	TOU3120: Adventure & Ecotourism 3

The Interpretive Guides Association – Group Management certification may be awarded to students who successfully meet the outcomes of Adventure and Ecotourism 3 with the final exam being delivered by an Interpretive Guides Association Trainer.

For more information, visit www.interpretiveguides.org.

Leave No Trace Trainer

CTS courses required	
TOU1010: The Tourism Sector	TOU1120: Adventure & Ecotourism 1

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

For more information, visit www.leavenotrace.ca.

Level II (Stitcher Advanced)

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

The list of courses was designed to prepare students to challenge the Level II (Stitcher Advanced) Exam to apply to become a stitcher in the costume department. Additional information on this pathway is available through the International Alliance of Theatrical Stage Employees (IATSE) Local 212 Education Coordinator.

For more information, visit www.iatse212.com.

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

Medical First Responder

CTS courses required	
HSS1010: Health Services Foundations	HCS2020: First Aid/CPR with AED
HCS1080: Cardiovascular System	HCS3020: First Responder 1
	HCS3030: First Responder 2

St. John Ambulance offers a Medical responder Basic Certificate as well as Health Care Provider CPR certification.

For more information, visit www.sja.ca.

Red Cross offers a certification in Health Care Provider CPR.

For more information, visit www.redcross.ca.

Microsoft Certified Application Specialist in Access 2007

CTS courses required	
INF1050: Database 1	INF2070: Database 2

To earn the Microsoft Certified Application Specialist certification for Microsoft Access 2007, you must pass one or more certification exams. Office Specialist exams provide a valid and reliable measure of technical proficiency and expertise by evaluating your overall comprehension of Office programs, your ability to use their advanced features, and your ability to integrate the Office programs with other software programs.

Students can take these courses and receive only high school credit or may choose to write the external certification exam at a testing centre near them. Testing centres can be found by using this locator at www.microsoft.com/learning/mcp/officespecialist/officespecialist_locator.aspx.

Microsoft Certified Application Specialist in Excel 2007

CTS courses required	
INF1060: Spreadsheet 1	INF2080: Spreadsheet 2

To earn the Microsoft Certified Application Specialist certification for Microsoft Excel 2007, you must pass one or more certification exams. Office Specialist exams provide a valid and reliable measure of technical proficiency and expertise by evaluating your overall comprehension of Office programs, your ability to use their advanced features, and your ability to integrate the Office programs with other software programs.

Students can take these courses and receive only high school credit or may choose to write the external certification exam at a testing centre near them. Testing centres can be found by using this locator at www.microsoft.com/learning/mcp/officespecialist/officespecialist_locator.aspx.

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

Microsoft Certified Application Specialist in PowerPoint 2007

CTS courses required

INF1070: Digital Presentation

To earn the Microsoft Certified Application Specialist certification for Microsoft PowerPoint 2007, you must pass one or more certification exams. Office Specialist exams provide a valid and reliable measure of technical proficiency and expertise by evaluating your overall comprehension of Office programs, your ability to use their advanced features, and your ability to integrate the Office programs with other software programs.

Students can take these courses and receive only high school credit or may choose to write the external certification exam at a testing centre near them. Testing centres can be found by using this locator at www.microsoft.com/learning/mcp/officespecialist/officespecialist_locator.aspx.

Microsoft Certified Application Specialist in Word 2007

CTS courses required

INF1030: Word Processing 1

INF3060: Word Processing 3

INF2050: Word Processing 2

To earn the Microsoft Certified Application Specialist certification for Microsoft Word 2007, you must pass one or more certification exams. Office Specialist exams provide a valid and reliable measure of technical proficiency and expertise by evaluating your overall comprehension of Office programs, your ability to use their advanced features, and your ability to integrate the Office programs with other software programs.

Students can take these courses and receive only high school credit or may choose to write the external certification exam at a testing centre near them. Testing centres can be found by using this locator at www.microsoft.com/learning/mcp/officespecialist/officespecialist_locator.aspx.

Pleasure Craft Operator Card

CTS course required

WLD1090: Boating Safety

Successful completion of WLD1090 and receiving a mark of 75% on an exam from an authorized agency can lead to obtaining a Pleasure Craft Operator Card.

For more information, visit St. John Ambulance at www.sja.ca/Alberta/Pages/default.aspx, Lifesaving Society at www.lifesaving.org/training_programs.php?page=273 or Government of Canada at www.tc.gc.ca/eng/marinesafety/debs-obs-paperwork-paperwork_operator-360.htm.

Resistance Training Leader

CTS courses required

HSS1010: Health Services Foundations

REC3010: Human Movement

HSS1020: Nutrition & Wellness

REC3040: Training & Conditioning

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

HCS1050: Musculoskeletal System	REC3070: Fitness Instruction Leadership Principles
HCS1080: Cardiovascular System	REC3080: Resistance Training Leadership

The Alberta Fitness Leadership Certification Association (AFLCA) offers certification in Resistance Training Leadership to individuals interested in leading resistance training exercise sessions.

For more information, visit www.provincialfitnessunit.ca.

Sports Nutrition

CTS course required	
REC2010: Nutrition for Recreation Activities & Sport	

A Sports Nutrition certificate is available from the Sports Medicine Council of Alberta (SMCA).

For more information, visit www.sportmedab.ca.

Sport Taping and Strapping

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

A Taping and Strapping certificate is available from the Sports Medicine Council of Alberta (SMCA).

For more information, visit www.sportmedab.ca.

Standard First Aid with CPR (Level C) and AED

CTS course required	
HCS2020: First Aid/CPR with AED	

Available at St. John Ambulance *or* Red Cross.

For more information, visit www.redcross.ca or www.sja.ca.

Trained Coach

CTS courses required	
REC2010: Nutrition for Recreation Activities & Sport	REC2120: Coaching 1 REC3120: Coaching 2

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

REC2060: Recreation Leadership
 REC1020: Injury Management 1

The National Coaching Certificate Program has seven certificates (modules) that align with outcomes from the five courses listed in the pathway above. They are Basic Mental Skills, Designing a Basic Sport Program, Fundamental Movement Skills, Making Ethical Decisions, Nutrition, Planning a Practice.

For more information, visit <http://www.tpr.alberta.ca/asrpwf/programs/sports/Coaching/index.asp>.

Welder First Period Apprenticeship

CTS courses required

WDA3400: Fabrication Orientation & Safety	WDA3435: Shielded Metal Arc Welding – Part 2
WDA3405: Fabrication Tools & Weld Faults	WDA3440: Shop/Lab Practices for GMAW, FCAW & SAW
WDA3410: Oxyfuel Welding	WDA3445: OAW Cutting Practical
WDA3415: Gas Metal Arc Welding	WDA3450: GMAW & FCAW Practical
WDA3420: Flux Cored Arc Welding & Submerged Arc Welding	WDA3455: SMAW Practical
WDA3425: Materials Handling	WDA3460: Practicum Course A
WDA3430: Shielded Metal Arc Welding – Part 1	

This pathway has been validated to align with post-secondary and industry standards. For students to obtain the desired credential/articulation, all specified course outcomes must be met. Students may take these courses for high school credit only, or they may choose to write the external articulation exam for first period apprenticeship.

This program is intended to provide students who successfully complete the specified CTS credentialed pathways courses with certain credit toward the Alberta Apprenticeship program. Upon graduation from high school, and with the support of an employer, a student may then enter into the post-secondary apprenticeship program as a first period apprentice with advanced standing.

Conditions of the agreement:

- all students must have their own set of first period apprenticeship Individual Learning Modules (ILMs) for study
- all identified CTS courses in the Apprenticeship and Industry Training (AIT) list must be delivered and assessed by a certified journeyman instructor in the trade offered
- supervising teacher(s), principal and journeyman instructor(s) responsible for the program must verify the successful completion of all the required courses
- completion of Trade Math (or equivalent)
- candidates will only be eligible for apprenticeship program accreditation and challenge appropriate exam(s) upon presentation of:
 - a completed 'Record of Courses Completed' form, and
 - proof of trade entrance educational requirements
- candidates who complete only the technical training may be credited with the first period of formal technical instruction and will then be eligible to challenge the first period theory exam

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

- candidates who successfully complete both the technical training and practical experience may be credited with the first period of formal technical instruction and will then be eligible to challenge both the first period theory and practical exams
- students eligible for accreditation will have fees for the apprenticeship exam waived if an [application](#) is made within three years of completing the CTS program.

For more information, visit www.tradesecrets.gov.ab.ca.

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