

Apprenticeship Books | Supplies



Books Available at Various
NSCC Campus Bookstores

TF: 1-866-679-6722 www.nsc.ca

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ASEP – GM Auto Service Education

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, safety boots/shoes
- **Tools:** Supplied
- **Other:** Calculator (basic)

Books/Resources for Level 1:

- Can. Ed. Automotive Tech. Erjavec (Package), Thomson/Nelson
- Automotive Chassis Systems, Halderman Pearson/Prenticehall
- Automotive Engine Repair and Rebuilding/Check Chart, Pearson/Prenticehall

Books/Resources for Level 2:

- Advanced Engine Performance, TT (Package), Thomson/Delamar
- Carried over from a previous level:
- Can. Ed. Automotive Tech. Erjavec (Package), Thomson/Nelson
- Automotive Chassis Systems, Halderman Pearson/Prenticehall

Books/Resources for Level 3:

- Hybrid and Alternative Fuel Vehicles, Prentice Hall
- Manual Transmission and Transaxle, TT, Thomson/Delamar
- Carried over from a previous level:
- Can. Ed. Automotive Tech. Erjavec (Package), Thomson/Nelson

Books/Resources for Level 4:

- Carried over from a previous level:
- Automotive Engine Repair and Rebuilding/Check Chart, Pearson/Prenticehall
- Can. Ed. Automotive Tech. Erjavec (Package), Thomson/Nelson
- Advanced Engine Performance, TT (Package), Thomson/Delamar

Agricultural Equipment Technician

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses (clear lens), CSA-approved safety footwear
- **Other:** Pens, colored pens (optional), pencils, highlighters (optional), binder, loose leaf, journal (available in campus bookstore), Apprentice Logbook, optional: calculator (basic math functions, percentage, square root, metric converter and inverse/rectangular functions)

Books/Resources for Level 1:

- You will need the Books/Resources that are required for Level 1 Heavy Duty Equipment Technician

Books/Resources for Level 2:

- You will need the Books/Resources that are required for Level 2 Heavy Duty Equipment Technician

Additionally, you will need the following Alberta ILMs:

- Alberta ILM 320105a Tractor Performance
- Alberta ILM 320105c Cutting Equip.
- Alberta ILM 320105e Tillage Equip.
- Alberta ILM 320307a GPS Mapping
- Alberta ILM 320307c Variable Rate Application
- Alberta ILM 320307e GPS Steering Guidance Systems
- Alberta ILM 320304a Forage Harvesting Equip.
- Alberta ILM 320301a Safety
- Alberta ILM 320301c Monitoring Equip.
- Alberta ILM 320301e New Advances in Spraying Technology
- Alberta ILM 320105b Suspension and Steering Systems on Ag. Eq.
- Alberta ILM 320105d Baling Equip.
- Alberta ILM 320105f Other Types of Ag. Equip.
- Alberta ILM 320307b Yield Monitors
- Alberta ILM 320307d Monitors and Sensors
- Alberta ILM 320305a Seeding Equip.
- Alberta ILM 320304b Combines
- Alberta ILM 320301b Sprayer Systems
- Alberta ILM 320301d Suspension Systems for Sprayers

Books/Resources for Level 3:

- You will need the Books/Resources that are required for Level 3 Heavy Duty Equipment Technician

Carried over from Agricultural Equipment Technician Level 2:

- Alberta ILMs

Books/Resources for Level 4:

- You will need the Books/Resources that are required for Level 4 Heavy Duty Equipment Technician

Carried over from Agricultural Equipment Technician Level 3:

- Alberta ILMs

Automotive Service Technician

Online training: Find your books/resources at Akerley Campus bookstore: 902-491-4916; metro.bookstore@nsc.ca

In-class training: Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety footwear, CSA-approved safety glasses
- **Other:** Pens, pencils, binder, loose leaf, scientific calculator, journal (available in campus bookstore)

Books/Resources for Level 1:

- Automotive Tech. Erjavec (Package), Thomson/Nelson
- Automotive Chassis Systems Halderman, Pearson/Prenticehall,
- Maintenance Inspection and Body Adjustment ISBN# 017-663681-1
- BC Learning Module B1-MN0862
- BC Learning Module B2-MN0863
- BC Learning Module B3- MN0864
- BC Learning Module B4-MN0865
- BC Learning Module B5-MN0866
- Alberta Individual Learning Module (ILM) (MIG)- 090102B

Books/Resources for Level 2:

- Advanced Engine Performance Diagnosis, Pearson/Prenticehall
Carried over from a previous level:
- Automotive Tech. Erjavec (Package), Thomson/Nelson
- Automotive Chassis Systems, Halderman, Pearson/Prenticehall

Books/Resources for Level 2-Lite:

- Advanced Engine Performance Diagnosis, Pearson/Prenticehall,
- Maintenance Inspection and Body Adjustment ISBN# 017-663681-1 (only students that graduated on or before June 2011 from the Automotive Service Repair program)
Carried over from a previous level:
- Automotive Tech. Erjavec (Package), Thomson/Nelson
- Automotive Chassis Systems, Halderman, Pearson/Prenticehall

Books/Resources for Level 3:

- Hybrid and Alternative Fuel Vehicles, Custom Ed. Pearson/Prenticehall, ISBN 1269263269
- Alberta Individual Learning Module (ILM) Propane & Compressed Gas, A090308a
Carried over from a previous level:
- Advanced Engine Performance Diagnosis, Pearson/Prenticehall
- Automotive Tech. Erjavec (Package), Thomson/Nelson
- Automotive Chassis Systems, Halderman, Pearson/Prenticehall

Books/Resources for Level 4:

- Diesel Fuel Injection Systems Custom Ed., Nelson 0-17-667037-8
- Diesel Fuel Injection Systems Electronic, Alberta Individual Learning Module (ILM) 090402a
- 1848 Electricity and Electronic Systems 2 Custom Ed. Nelson 0-17-655931-0

Carried over from a previous level:

- Advanced Engine Performance Diagnosis, Pearson/Prenticehall
- Automotive Tech. Erjavec (Package), Thomson/Nelson

Boilermaker

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear, earplugs, hard hat
- **Other:** Pens, pencils, binder, loose-leaf, calculator (scientific)

Books/Resources for All Levels:

- IPT Metal Trades Handbook
- IPT Boilermaker Manual

Bricklayer

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear, hard hat, half-face respirator with n-95 or better particulate filters
- **Tools:** Trowel, 4-foot level, jointer, brick hammer
- **Other:** Pens, pencils, binder, loose-leaf, calculator (basic)

Books/Resources for All Levels:

- Textbook of Canadian Masonry; Author: Canadian Masonry Contractors Association

Carpenter

Online training: Find your books/resources at Akerley Campus bookstore: 902-491-4916; metro.bookstore@nsc.ca

In-class training: Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear "Green Triangle", CSA-approved hard hat, ear plugs, gloves
- **Tools:** Tool belt, framing square, hammer, cat's paw, tape measure, knife
- **Other:** Pens, pencils, calculator (square root function)

Books/Resources for Level 1:

Code Book

- NRC National Building Code, current edition

CARA-0800 Construction Safety

- Site Preparation NSCC Apprenticeship, Pearson Custom Library ISBN# 978-1-323-34660-0 Alberta Individual Learning Module (ILM) 020101a Safety legislation, Regulations & Policy in the Trades
- Alberta ILM 020101c Hazardous Materials & Fire Protection
- Alberta ILM 020301a Commercial & Industrial Construction Site Safety
- Alberta ILM 020401a Industrial Construction Site Safety
- Alberta ILM 020101b Climbing, Lifting, Rigging and Hoisting

CARA-0801 Carpentry Tools

- Alberta ILM 020102a Hand Tools
- Alberta ILM 020102b Portable Power Tools
- Alberta ILM 020102c Stationary Power Tools
- Alberta ILM 020102d Cutters, Bits and Abrasives
- Alberta ILM 020102e Explosive Actuated Tools
- Alberta ILM 020102f Pneumatic & Fuel Powered Tools
- Alberta ILM 020101d Construction Equipment Safety
- Alberta ILM 020301bA Scaffolding-Part A
- Alberta ILM 020301bB Scaffolding-Part B

CARA 0802 Construction Blueprints

- Alberta ILM 020205c Interpretation Build Codes & Standards
- NSCC Communications-Pearson Custom Library ISBN# 978-1-323-34576-4
- Understanding Construction Drawings-Tom Stephenson ISBN# 978-0-17-653155-3

CARA 0824 Introduction to Building Materials

- Carpentry Forms-Level 3 NCCER-Pearson ISBN 978-0-13-382305-9
- Alberta ILM 020101f Solid Wood Products & Wood Joinery
- Alberta ILM 020101g Manufactured Construction Products
- Alberta ILM 020101h Fasteners, Adhesives and Sealants

- Alberta ILM 020301c Concrete Mix Design
[CARA 1827 Basic Site Layout](#)
- NSCC Basic Site Layout, Framing, Floor Wall Ceiling & Deck Framing, Stair Framing - Pearson Custom Library-Powell Chapter 3. ISBN# 978-1-323-35401-8
[CARA 1828 Basic Foundations](#)
- Carpentry Forms-Level 3 NCCER-Pearson ISBN 978-0-13-382305-9
- Understanding Construction Drawings-Tom Stephenson ISBN# 978-0-17-653155-3
- Alberta ILM 020103eA Foundation Systems-A
- Alberta ILM 020103eB Foundation Systems-B
[CARA 1842 Basic Framing](#)
- NSCC Basic Site Layout, Framing, Floor Wall Ceiling & Deck Framing, Stair Framing - Pearson Custom Library-Powell Chapter 3. ISBN# 978-1-323-35401-8
- Understanding Construction Drawings-Tom Stephenson, Chapter 7 ISBN# 978-0-17-653155-3
- Alberta ILM 020103b Building Loads & Forces
- Alberta ILM 020103f Floor Frame Support
- Alberta ILM 020103g Floor Frames

Books/Resources for Level 2:

[Carried over from a previous level:](#)

- NRC National Building Code, current edition
[Cara 1832 Building Science](#)
- Alberta ILM 020201d Building Envelope
- Alberta ILM 020403e Energy-Efficient Construction
- Alberta ILM 020403gA Energy-Efficient Framing-Part A
- Alberta ILM 020403gB Energy-Efficient Framing-Part B

[Carried over from a previous level:](#)

- Understanding Construction Drawings-Tom Stephenson ISBN# 978-0-17-653155-3
- NSCC-Pearson Custom Library- Thermal & Moisture Protection NCCER (27203-13) ISBN# 978-1-323-35593-0

[Cara 1833 Wall Framing](#)

- Alberta ILM 020201bB Wall Framing Systems-Part B
- Alberta ILM 020303g Timber Construction
- Alberta ILM 020303e Fire Protection, Acoustics & Commercial Insulation

[Carried over from a previous level:](#)

- NSCC Basic Site Layout, Framing, Floor Wall Ceiling & Deck Framing, Stair Framing - Pearson Custom Library-Powell Chapter 3. ISBN# 978-1-323-35401-8
- Understanding Construction Drawings-Tom Stephenson ISBN# 978-0-17-653155-3
- Alberta ILM 020103eB Foundation Systems-B

[Cara 1829 Exterior Wall Covering Systems](#)

- Alberta ILM 020203bA Exterior Finishes-Part A
- Alberta ILM 020203bB Exterior Finishes-Part B

Carried over from a previous level:

- Understanding Construction Drawings-Tom Stephenson ISBN# 978-0-17-653155-3
- NSCC Exterior Envelope-Pearson Custom Library ISBN# 978-1-323-35593-0

Cara 1831 Roof Coverings

- Alberta ILM 020203c Residential Roof Coverings
- Alberta ILM 020303d Commercial Roofs

Carried over from a previous level:

- Understanding Construction Drawings-Tom Stephenson ISBN# 978-0-17-653155-3
- NSCC Exterior Envelope-Pearson Custom Library ISBN# 978-1-323-35593-0
- NSCC Roof Framing-Pearson Custom Library ISBN# 13-978-1-269-81943-5

Cara 1821 Gable Roofs

- Alberta ILM 020202aB Roof Framing Systems-Part B
- Alberta ILM 020202aC Roof Framing Systems-Part C

Carried over from a previous level:

- NSCC Basic Site Layout, Framing, Floor Wall Ceiling & Deck Framing, Stair Framing - Pearson Custom Library-Powell Chapter 3. ISBN# 978-1-323-35401-8
- NSCC Roof Framing-Pearson Custom Library ISBN# 13-978-1-269-81943-5
- Understanding Construction Drawings-Tom Stephenson ISBN# 978-0-17-653155-3
- NSCC Roof Framing-Pearson Custom Library ISBN# 13-978-1-269-81943-5

Cara 1829 Exterior Windows & Doors

- Alberta ILM 020203aA Windows & Doors-Part A
- Alberta ILM 02003aB Windows & Doors-Part B

Carried over from a previous level:

- NSCC Exterior Envelope-Pearson Custom Library ISBN# 978-1-323-35593-0

Cara 1809 Straight Stairs

- Alberta ILM 020204aA Single & Multi-Flight Stairs-Part A
- Alberta ILM 020204aB Single & Multi-Flight Stairs-Part B

Carried over from a previous level:

- Understanding Construction Drawings-Tom Stephenson ISBN# 978-0-17-653155-3
- NSCC Basic Site Layout, Framing, Floor Wall Ceiling & Deck Framing, Stair Framing - Pearson Custom Library-Powell Chapter 3. ISBN# 978-1-323-35401-8

Cara 1834 Advanced Site Layout

- Alberta ILM 020301hA Survey Equipment-Part A
- Alberta ILM 020301hB Survey Equipment-Part B
- Alberta ILM 020301hC Survey Equipment-Part C

Carried over from a previous level:

- NSCC Basic Site Layout, Framing, Floor Wall Ceiling & Deck Framing, Stair Framing - Pearson Custom Library-Powell Chapter 3. ISBN# 978-1-323-35401-8

Books/Resources for Level 3:

Carried over from a previous level (required for all courses):

- National Building Code of Canada, current edition

CARA 1837 Formwork 1

- Alberta ILM 020302d Concrete Stairs
- NCCER Level 3 Carpentry Forms Pearson ISBN# 978-0-13-382305-9

CARA 1838 Formwork 2

- Understanding Construction Drawings- Tom Stephenson ISBN# 978-0-17-653155-3
- NCCER Level 3 Carpentry Forms Pearson, ISBN# 978-0-13-382305-9
- Alberta ILM 0204301g Pre-Stressed and Precast Concrete

CARA 1835 Interior Walls and Ceilings

- NCCER Interiors Custom NCCER book - Pearson Drywall Installation ISBN-1323555102
- Understanding Construction Drawings - Tom Stephenson ISBN 978-0-17-653155-3
- NSCC Apprenticeship Interior Finishes- NSCC Apprenticeship Interior Finishes Nelson Custom book, ISBN-978-0-17-678238-2
- Alberta ILM Interior Systems Calculations ILM 020303aA

CARA 1836 Interior Doors, Windows and Trim

- Understanding Construction Drawings- Tom Stephenson ISBN# 978-0-17-653155-3
- NSCC Apprenticeship Interior Finishes Nelson Custom book, ISBN-978-0-17-678238-2
- Alberta ILM Wood Finishing ILM 020401j
- Alberta ILM Windows and Doors Part C ILM 020203aC

CARA 1803 Equal Sloped Hip Roofs

- Faculty recommend a review of Ceiling Framing (NSCC Basic Site Layout, Framing, Floor Wall Ceiling & Deck Framing, Stair Framing - Pearson Custom Library) and the Hip Roof section from NSCC Roof Framing - Pearson Custom Library.
- NSCC Apprenticeship Gambrel, Hip, Dormer, Intersecting and Advanced Roofs ISBN: 978-0-17-678250-4

CARA 1804 Intersecting Roofs of Equal Slope

- NSCC Apprenticeship Gambrel, Hip, Dormer, Intersecting and Advanced Roofs ISBN: 978-0-17-678250-4

CARA 1810 Cabinets and Millwork

- NSCC Apprenticeship Interior Finishes ISBN-978-0-17-678238-2
- Alberta ILM 020401g Cabinet Installation 020401g
- Understanding Construction Drawings- Tom Stephenson ISBN# 978-0-17-653155-3

Books/Resources for Level 4:

Carried over from a previous level:

- National Building Code of Canada, current edition

CARA 1814 Energy Efficient Construction

- Alberta ILM # 020403e Energy-Efficient Construction
- Alberta ILM # 020403gA Energy-Efficient Framing - Part A
- Alberta ILM # 020403g8 Energy-Efficient Framing - Part B
- Alberta ILM # 0204031Energy Efficient Building Design
- Alberta ILM # 020403h Insulation and Air Barriers

CARA 1813 Heavy/Commercial Construction

- Carpentry Forms-Level 3 NCCER-Pearson ISBN 978-0-13-382305-9

- Advanced Roof/Wall Systems, NCCER, Pearson, ISBN 978-1-269-81357-0
- Alberta ILM # 0204011 Construction Materials Management
- Alberta ILM # 020401e Job Scheduling
- Alberta ILM # 020302d Concrete Stairs
- Alberta ILM # 020301g Pre-Stressed and Precast Concrete
- Alberta ILM ISBN 978-0-13-382305-9

CARA 1817 Renovations

- Alberta ILM # 020403aA Renovations - Part A
- Alberta ILM # 020403aB Renovations - Part B
- Alberta ILM # 020403b Additions
- Alberta ILM # 020403c Architectural Building Design Concepts
- Alberta ILM # 020403d Barrier-Free Design and Ergonomics

CARA 1815 Commercial Blueprints and Estimating

- Alberta ILM # A020408aA-Trade Math Part A.
- Alberta ILM # A020408aB - Trade Math Part B.
- Alberta ILM # A020408aC-Trade Math Part C.
- Alberta ILM # 020404c Industrial Project Costing
- Alberta ILM # 020205bA Drawing Interpretation Part A
- Alberta ILM # 0204041 Industrial Drawing Interpretation

The following modules are combined into the Jasper Blueprint which will be printed as one blueprint, 18"x24":

- Alberta ILM Blueprint Package Part 1 Jasper Emergency Services Building ffDP020407f
- Alberta ILM Blueprint Package Part 2 Jasper Emergency Services Building ffDP020407g
- Alberta ILM Blueprint Package Part 3 Jasper Emergency Services Building #DP020407h
- Alberta ILM Blueprint Package Part 4 Jasper Emergency Services Building #DP020407i
- Alberta ILM Blueprint Package Part 5 Jasper Emergency Services Building #DP020407j
- Alberta ILM Blueprint Package Part 6 Jasper Emergency Services Building #DP020407k
- Alberta ILM Blueprint Package Part 7 Jasper Emergency Services Building #DP020407l

Cook

Online training: Find your books/resources at Akerley Campus bookstore: 902-491-4916; metro.bookstore@nsc.ca

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class. In addition to the required books, Cook apprenticeship students are encouraged to utilize the many quality materials, cookbooks and resources available to further their learning. NSCC faculty would be happy to provide a list of recommended materials.

- **Uniform: Minimum standards for kitchen labs:**
 - a. Double-breasted chef's jacket with long sleeves (white recommended)
 - b. Black chef's pants (black jeans, khakis, etc. are not permitted in the kitchen)

- c. Apron (white recommended)
- d. Washable pill-box style chef's hat, or paper professional chef's toque (ball caps not permitted in the kitchen)
- e. Black, closed-toe, leather or vinyl shoes that are certified slip resistant (canvas or mesh sneakers not permitted in the kitchen)
- f. Jewelry: For health & safety reasons, jewelry is not permitted in the kitchen
- **Knives: Sharp & maintained knife kit to include, at minimum:**
 - a. French knife
 - b. Paring knife
 - c. Serrated knife
 - d. Peeler
 - e. Steel
 - f. Boning knife
 - g. Fillet knife
- **Other:** Notepad and black permanent markers (Sharpies)

Books/Resources for All Levels:

- On Cooking - 7th Canadian Edition Pearson - Labensky, Hause, Martel, Malley, Bevan & Sicoli
- My Culinary Lab account (free of charge; part of the rights of using On Cooking)
www.pearsonmylabandmastering.com/northamerica/myculinarylab
- Essentials Culinary Dictionary Pearson, Prentice Hall - Labensky Electrician, Construction and Industrial

Additional Resources for Level 1:

- Food Service Workers Safety Guide-Occupational Health & Safety
www.ccohs.ca/products/publications/food.html

Electrician, Construction and Industrial

Online training: Find your books/resources at Ivany Campus bookstore: 902-491-1079; metro.bookstore@nsc.ca

In-class training: Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear, hard hat, work gloves
- **Tools (instructors will advise when to bring tools to class):**
 - a. Measuring tape
 - b. Wire strippers
 - c. Wire cutters
 - d. Pliers
 - e. Hacksaw
 - f. Knife
 - g. Approved tester (multimeter or clamp-on)

- h. Screw drivers:
 - i. Robertson #1, #2
 - ii. 3/16" Flat blade
 - iii. Phillips
 - iv. 1/8" Terminal block screw driver

- **Other:** Pens, pencils, binder, loose leaf, journal (available in campus bookstore), ruler (metric/imperial), calculator (scientific - suggested model: Casio fx-260 solar)

Books/Resources for Level 1:

- 2018 Canadian Electrical Code (24th ed.)
- Delmar's Standard Textbook of Electricity 6th ed.
- Electrical Wiring (Residential)
- Electrical Wiring (Commercial)
- Tools, Equipment and Code ELEC1009 Nelson Education

Books/Resources for Level 2:

Carried over from a previous level:

- 2018 Canadian Electrical Code (24th ed.)
- Delmar's Standard Textbook of Electricity 6th ed. (any edition from the 4th onward is acceptable)
- Electrical Wiring (Residential) based on 2018 Canadian Electrical Code (CEC)
- Electrical Wiring (Commercial) based on 2018 Canadian Electrical Code (CEC)

Books/Resources for Level 3:

- Electrical Motor Controls for Integrated Systems 5th ed. (3rd or 4th ed. is also acceptable)

Carried over from a previous level:

- 2018 Canadian Electrical Code (24th ed.) or 2015 Canadian Electrical Code (23rd ed.)
- Delmar's Standard Textbook of Electricity 6th ed. (any edition from the 4th onward is acceptable)
- ELEA 1814: Module 20, D.C. Machines and Controls
- ELEA 1816 & ELEA 1815: Module 21, AC Machines

Books/Resources for Level 4:

- ELEA 1813: Module 29, High Voltage Installation
- ELEA 1838: Power Supplies / Rectifiers / Drives course pack
- ELEA 1821 & ELEA 1823: Module 30, Modern Building Systems

Carried over from a previous level:

- 2018 Canadian Electrical Code (24th ed.) or 2015 Canadian Electrical Code (23rd ed.)
- Delmar's Standard Textbook of Electricity 6th ed. (any edition from the 4th onward is acceptable)
- Electrical Motor Controls for Integrated Systems 5th ed. (3rd or 4th ed. is also acceptable)

Books/Resources for Level 5 (Industrial Electrician Only):

- ILEA 1841: Hydraulic Principles Competency #1 (MN 1 82)
- ILEA 1841: Module 27 Digital Logic

Carried over from a previous level:

- 2018 Canadian Electrical Code (24th ed.)

- Delmar's Standard Textbook of Electricity 6th ed. (any edition from the 4th onward is acceptable)
- Electrical Motor Controls for Integrated Systems 5th ed. (3rd or 4th ed. is also acceptable)

Gasfitter

Online training: Find your books/resources at Akerley Campus bookstore: 902-491-4916; metro.bookstore@nsc.ca

Heavy Duty Equipment Technician

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses (clear lens), CSA-approved safety footwear
- **Other:** Pens, colored pens (optional), pencils, highlighters (optional), binder, loose leaf, journal (available in campus bookstore), Apprentice Logbook, optional: calculator (basic math functions, percentage, square root, metric converter and inverse/rectangular functions)

Books/Resources for Level 1:

- Heavy Duty Truck Systems, 5th Edition
- Medium Heavy Duty Truck Engines, Current Edition
- Hydraulics (Fundamentals of Service) - John Deere Co.
- Alberta Individual Learning Module (ILM) 120101C Welding Safety
- Alberta ILM 120101G Oxyfuel Equipment
- Alberta ILM 120101H Oxyfuel Welding & Braze Welding
- Alberta ILM 120101i Oxyfuel Cutting
- Alberta ILM 120102A SMAW Welding
- Alberta ILM 120102B Mild Steel Electrodes
- Alberta ILM 120102d SMAW Welds on Mild Steel
- Alberta ILM 120103A GMAW Equipment
- Alberta ILM 120103B GMAW Filler Metals, Shielding Gases & Safety
- Alberta ILM 120103d FCAW
- Alberta ILM 190101e Measuring Tools
- Alberta ILM 190101c Materials and Fastening Devices
- Alberta ILM 190101b Lifting Procedures and Wire Rope
- Alberta ILM 190102c Bearings and Seals
- Alberta ILM 190103b Hydraulic Brake Systems
- Alberta ILM 190103d Hydraulic Brake Booster Fundamentals and Service
- Alberta ILM 190103e Parking Brake System Fundamentals and Service

- Alberta ILM 190103f Electric Brake Fundamentals and Service
- Alberta ILM 190104f a and b Electric Wiring Lighting Circuits and Circuit Protection
- Alberta ILM 190104b Electrical Circuits
- Alberta ILM 190405A a and b Truck Electrical Circuit Fundamentals
- Alberta ILM 190201a Engine Fundamentals

Books/Resources for Level 2:

- Alberta ILM 190104c Magnetism
- Alberta ILM A190403A Ignition System Fundamentals
- Alberta ILM A190403c Alternate Fuels
- Alberta ILM 190203a Diesel Fuel and Storage Tanks
- Alberta ILM 190203b Combustion Process and Starting Aids
- Alberta ILM 190202c Lube Systems and Crankcase Ventilation
- Alberta ILM 190202a Air Induction and Exhaust Systems
- Alberta ILM 190202b Turbocharged Air Systems
- Alberta ILM 190401db Transmission Fundamentals Part B
- Alberta ILM 190401da Transmission Fundamentals Part A
- Alberta ILM 190401e Transmission Shifting
- Alberta ILM 190401f Transmission Service
- Alberta ILM 190205f Non-electrical crank
- Alberta ILM 190403a Air Conditioning Fundamentals
- Alberta ILM 190403b HVAC Control Systems
- Alberta ILM 190403C a & b Air Conditioning testing and Service

Carried over from a previous level:

- Heavy Duty Truck Systems, 5th Edition
- Medium Heavy Duty Truck Engines, Current Edition

Books/Resources for Level 3:

- Alberta ILM 190102A-Frame & Suspension Fundamentals
- Alberta ILM 190102B-Frame & Suspension Service
- Alberta ILM 190303HA-Undercarriage Systems Fundamentals
- Alberta ILM 190303HB-Undercarriage Systems Fundamentals
- Alberta ILM 190102D-Wheels, Tires and Hubs
- Alberta ILM 190402A-Steering Fundamentals
- Alberta ILM 190402BA-Steering Service Part A
- Alberta ILM 190402C-Steering Angles & Alignment
- Alberta ILM 190402BB-Steering Service Part B
- Alberta ILM 190302AA-Wheeled Equipment Steering Part A
- Alberta ILM 190302AB-Wheeled Equipment Steering Part B
- Alberta ILM 190302B-Suspension System Fundamentals & Serv
- Alberta ILM 190303B-Torque Converter Fundamentals & Serv
- Alberta ILM 190303C-Powershift&Automatic Transmission
- Alberta ILM 190303D-Powershift & Automatic Transmission C
- Alberta ILM 190303F-Powershift & Automatic Transmission T
- Alberta ILM 190301D-Hydraulic Actuator Fundamentals

- Alberta ILM 190301E-Hydraulic Actuator Service
- Alberta ILM 190301FA-Hydraulic Valves - Part A
- Alberta ILM 190301FB-Hydraulic Valves - Part B
- Alberta ILM 190303GB-Tracked Equip. Steering Fundamentals
- Alberta ILM 190303GA-Tracked Equip Steering Fundamentals
- Alberta ILM 190403A-Air Conditioning Fundamentals
- Alberta ILM 190403B-HVAC Control Systems
- Alberta ILM 190403CA-Air Conditioning Test/Service Part A
- Alberta ILM 190403CB-Air Conditioning Test/Service Part B

Books/Resources for Level 4:

- Alberta ILM 190102h-3.0-Preventative Maintenance
- Alberta ILM 190303gA-5.0 Tracked Equipment Steering-Part A
- Alberta ILM 190303gB-5.1 Tracked Equipment Steering-Part B
- Alberta ILM 190302cA-4.1-Off Road Accessories- Part A
- Alberta ILM 190302cB-4.1-Off Road Accessories- Part B
- Alberta ILM 190101b-8.1-Lifting procedures and Wire Rope

Carried over from a previous level:

- Medium Heavy Duty Truck Engines, Current Edition

Industrial Mechanic (Millwright)

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear
- **Other:** Pens, pencils, binder, loose leaf, calculator (basic)

Books/Resources for Level 1:

- BC Industrial Mechanic Manual
- Study Guide for BC Industrial Mechanic Manual
- Alberta Individual Learning Modules (ILMs) Welder 160204bA, 160204bB, 160204c

Books/Resources for Level 2:

- Alberta Individual Learning Modules (ILMs) Static and Dynamic Seals: 160201a, 160404d, 160404e
- Alberta ILMs Bearings and Lubrication: 160201fA, 160201fB, 160201dA, 160201c, 160201bA
- Alberta ILMs Couplings and Clutches: 160202b, 160202c
- Alberta ILMs Gear Drive Units: 160202f, 160202g
- Alberta ILMs Conveyors (material handling: 160405a, 160405b, 160405c.
- Alberta ILMs Drawings and Blueprint: 160106gA, 160106gB
- Alberta ILMs Sheaves and Sprockets: 160202eA, 160202eB, 160202dA, 160202dB

Carried over from a previous level:

- BC Industrial Mechanic Manual
- Study Guide for BC Industrial Mechanic Manual

Books/Resources for Level 3:

- Alberta Individual Learning Modules (ILMs) Pumps: 160404a, 160404b, 160404c
- Alberta ILMs Fluid Power: 160301aA, 160301aB, 160301bA, 160301bB, 160301dA, 160301dB
- Alberta ILMs Pneumatics: 160301g, 160301f
- Alberta ILMs Compressors: 160203aB, 160203f, 160302b, 160203aA, 160302a
- Alberta ILMs Internal Combustion Engines: 160304a, 160304b, 160304c
- Alberta ILMs Basic Electricity: 160401a, 160401b, 160401c, 160401h

Carried over from a previous level:

- BC Industrial Mechanic Manual
- Study Guide for BC Industrial Mechanic Manual

Books/Resources for Level 4:

- Alberta Individual Learning Modules (ILMs) Fans and Boilers: 160302e, 070201b
- Alberta ILMs Steam and Gas Turbines: 160402b, 160402ab, 160402aa, 160402c
- Alberta ILMs Alignment: 160303a, 160204a, 160105b
- Alberta ILMs Dynamic Balance and Vibration: 160403b, 160204d, 160403aa
- Alberta ILMs Machinery Installation and Maintenance

Carried over from a previous level:

- BC Industrial Mechanic Manual
- Study Guide for BC Industrial Mechanic Manual

Instrumentation and Control Technician

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** Safety glasses, safety footwear
- **Other:** Pens, pencils, binder, loose leaf, calculator (basic)

Books/Resources for All Levels:

- Instrumentation and Process Control (6th Ed)

Ironworker (Reinforcing and Structural/Orn.)

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear, hard hat, fitter's gloves, coveralls, safety harness, double lanyard with shock absorber

▪ **Tools:**

- a. Ironworker belt equipped with bolt bag
- b. 2- 3/4 in. spud wrenches
- c. Striker
- d. 12-in. adjustable wrench
- e. Burning goggles
- f. Bull pin
- g. 25-ft. measuring tape

- **Other:** Pens, pencils, highlighter, binder, loose leaf, post-it page flags, calculator (scientific), ruler (imperial)

Books/Resources for All Levels:

- Books/resources for all levels will be provided by instructor

Machinist

Online training: Find your books/resources at Akerley Campus bookstore: 902-491-4916; metro.bookstore@nsc.ca

In-class training: Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Other:** Pens, pencils, highlighter, binder, loose leaf, calculator

Books/Resources for Level 1:

- N/A

Books/Resources for Level 2:

- Technology of Machine Tools, 7th Edition
MCHA 1841 Specialty Machinable Materials
- Alberta ILM Machine Broaching
- Alberta ILM Spines
MCHA 1813 Advanced Lathe Operations
- Alberta ILM Screw Thread Terminology
- Alberta ILM Screw Thread Measurement and Gauging
- Alberta ILM Advanced Limits and Fits
- Alberta ILM Multiple Start Threads, Worm
MCHA 1814 Vertical Milling Machine Operations
- Alberta ILM Milling Operations
- Alberta ILM Tool and Working Holding Devices
- Alberta ILM Milling Machines
- Alberta ILM Milling Cutters
- Alberta ILM Dividing Head and Indexing

Books/Resources for Level 3:

- Technology of Machine Tools, 7th Edition (special publication, separate booklet)

[MCHA 1815 Spur Gears](#)

- Alberta ILM Gearing
- Alberta ILM Spur Gears and Milling
- Alberta ILM Gear Manufacturing Methods

[MCHA 1816 Planning and Measuring Precision Layout](#)

- Alberta ILM Estimating
- Alberta ILM Inspection Gauges
- Alberta ILM Layout Tools and Procedures
- Alberta ILM Gauges and Comparators
- Alberta ILM Surface Finish, Turning
- Alberta ILM Calibration of Measuring Tools

[MCHA 1843 Grinding Machines and Processes](#)

- Alberta ILM Grinding Machines and Processes
- Alberta ILM Abrasives

[MCHA 1822 Bevel, Helical and Worm Gears](#)

- Alberta ILM Bevel Gears
- Alberta ILM Helical Gears
- Alberta ILM Worm Gears

[MCHA 1829 Material Selection & Heat Treatment / Carbide Tooling](#)

- Alberta ILM Cutting Tool Material
- Alberta ILM Metal Specifications and Testing

[MCHA 1838 Precision Measurement/Jigs and Fixtures](#)

- Alberta ILM Gauges and Comparator
- Alberta ILM Fixtures
- Alberta ILM Estimating

Books/Resources for Level 4:

- Technology of Machine Tools, 7th Edition
- [MCHA 1846 CNC Operation](#)
- Alberta ILM Introduction and Application Computer Numerical Control, Turning Center
- Alberta ILM CNC Turning Centers, Program and Machine Co-ordinate Systems
- Alberta ILM Machine Co-ordinate Systems for CNC Turning Machines
- Alberta ILM Set-up and Operations for CNC Turning Machines V.1.1 and V2
- [MCHA 1821 CNC Programming](#)
- Alberta ILM Linear and Circular Interpolation
- Alberta ILM Tool Measurement
- Alberta ILM CNC Threading
- Alberta ILM Threading
- Alberta ILM Specialized Manufacturing
- [MCHA 1839 Quality Inspection and Reconditioning](#)
- Alberta ILM Mechanical Seals
- Alberta ILM Accessories, Fluids and Seals Part A
- Alberta ILM Accessories, Fluids and Seals Part B
- Alberta ILM Bearing Maintenance Part A

- Alberta ILM Bearing Maintenance Part B
- Alberta ILM Plain Bearings, Part A
- Alberta ILM Plain Bearings, Part B
- Alberta ILM Anti-Friction Bearing Classification and Identification
- Alberta ILM Anti-Friction Bearing Removal and Installation Part A

Metal Fabricator (Fitter)

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:**

- a. CSA-approved safety glasses, CSA-approved safety footwear (all leather), welding gloves, welding shield
- b. Coveralls with visible ID and leather split leg or full apron combination (minimum requirement) for all participants involved in welding and cutting operations;
OR
- c. Leather welding jacket and leather split leg or full apron combination must be worn during all welding and cutting processes. All clothing underneath must cover the leg fully and be made from natural fibres such as wool or cotton.

- **Other:** Pens, pencils, binder, loose leaf

- **Books/Resources for Level 1:**

[W DFA 1825 Material handling](#)

- Alberta Individual Learning Module (ILM) 120101j

[W DFA 1826 Safety tools and equipment](#)

- Alberta ILM 120101-b Safety Guidelines
- Alberta ILM 120101-c- Welding Safety
- Alberta ILM 120101-d- Hand Tools
- Alberta ILM 120101-e-Power Tools

[W DF 1827 Introduction to Welding/Oxy-Fuel](#)

- Alberta ILM 120101-g-Oxyfuel
- Alberta ILM 120101-h-Oxyfuel Cutting
- Alberta ILM 120101-i-Oxyfuel Welding Brazing

[W DF 1828 Welding Processes 1](#)

- Alberta ILM 120102-a- SMAW Equipment
- Alberta ILM 120102-b- Mild Steel Electrodes
- Alberta ILM 120102-c- Basic Joint and Weld Types
- Alberta ILM 120102-e- Shop/Lab Practices: SMAW Welds on Mild Steel
- Alberta ILM 120101-f- Weld Faults

[W DF 1829 Welding Process 2](#)

- Alberta ILM 120103-a- Gas Metal Arc Welding
- Alberta ILM 120103-b- GMAW Filler Metals, Shielding Gases and Safety

- Alberta ILM 120103-c- GMAW, Equipment and Troubleshooting
- Alberta ILM 120103-d- Flux Core Arc Welding
- Alberta ILM 120103-f- Shop/Lab Practices GMAW Welds on Mild Steel
- Alberta ILM 120103-g- Shop/Lab FCAW Welds on Mild Steel
- Alberta ILM 120103-h- Shop/Lab Practices Combined GMAW and FCAW Welds on Mild Steel

WDF 1830 Drawings/Trade Practices

- Alberta ILM 120204-a-Introduction to Pattern Development
- Alberta ILM 120204-c- Isometric and Oblique Drawings
- Alberta ILM 120303-a- Introduction to Drawings Interpretation
- Alberta ILM 120303-b- Structural Drawings
- Alberta ILM DP 120303-c- Drawings Package, Structural Drawings

WDF 1831 Layout and fitting

- Alberta ILM 120204-d- Basic fabrication layout practice
- Alberta ILM 120204-e-Plate Layout
- Alberta ILM 120204-g-Welding Symbols
- Alberta ILM 120204-b-Geometric Construction

Extra Reference (Math)

- Alberta ILM 120104-a-Fractions
- Alberta ILM 120104-b-Decimals
- Alberta ILM 120104-c-Percentage and Ratios
- Alberta ILM 120104-d-Geometric Formulas
- Alberta ILM 120104-e-Metric and Imperial Measurements

Books/Resources for Level 2:

MTF Curriculum Unit-200 Drawings 2

- Alberta ILM 120303-e-Pressure Vessels
- Alberta ILM DP120303-f-Pressure Vessel Drawings
- Alberta ILM 120303-b- Structural Steel
- Alberta ILM DP120303-c- Structural Drawings

MTF Curriculum Units 220, 230, 235, 240 Shop Equipment & Bending Principles

- Metal Fabrication a Practical Guide (1-881113-16-7)
- Alberta ILM 120101-e-Hand Tools
- Alberta ILM 120101-d- Power Tools

MTF Curriculum Unit 205 Basic Layout

- Alberta ILM 120204-f-Pipe Layout
- Alberta ILM 120204-b-Geometric Construction
- Alberta ILM 120204-d-Basic Layout and Fabrication Practices
- Alberta ILM 120204-e-Plate Layout

MTF Curriculum Unit 210 Fabrication

- ITP Metal Trades and Welding Handbook (0-920855-19-9)
- ITP Guide to Blueprint Interpretation (0-920855-42-3)
- Alberta ILM 120303-b-Structural Steel

- Alberta ILM 120201-c-Alloy and Carbon Steels
- Alberta ILM 120201-b-Production and Properties of Metals
- [MTF Curriculum Unit 225 Cutting Processes](#)
- Alberta ILM 120101-g-Oxyfuel Equipment
- Alberta ILM 120101-h-Oxyfuel Welding
- Alberta ILM 120101-i-Oxyfuel Cutting
- Alberta ILM 120102-e-Arc Cutting and Gouging

Books/Resources for Level 3:

[WDF 1842 Drawings 3](#)

- Alberta ILM 120303-d-Piping Drawings
- Alberta ILM 110202-h-Square and Rectangle to Round
- Alberta ILM 110302-f-Truncated Cones

[WDF 1843 Fittings and Assembly 1](#)

Carried over from a previous level:

- ITP Metal Trades and Welding Handbook (0-920855-19-9)
- ITP Guide to Blueprint Interpretation (0-920855-42-3)

[WDF 1846 Metallurgy](#)

- Alberta ILM 120304 c Metallurgy
- Alberta ILM 120304 d Heat Treatment
- Alberta ILM 120201 e Distortion
- Alberta ILM 120301 a Stainless Steel

[WDF 1844 Layout 3](#)

Carried over from a previous level:

- ITP Metal Trades and Welding Handbook (0-920855-19-9)
- ITP Guide to Blueprint Interpretation (0-920855-42-3)

Books/Resources for Level 4:

[MTF 1848 Fabrication 2](#)

Carried over from a previous level:

- ITP Metal Trades and Welding Handbook (0-920855-19-9)
- ITP Guide to Blueprint Interpretation (0-920855-42-3)

[MTF 1847 Fitting & Assembly 2](#)

Carried over from a previous level:

- ITP Metal Trades and Welding Handbook (0-920855-19-9)
- ITP Guide to Blueprint Reading (0-920855-42-3)

[MTF 1849 Quality Assurance & Work Planning](#)

- 120201-d-Metal Identification
- 120304-b-Destructive Testing
- 120304-a-Non-destructive Testing
- 120304-ea-Codes & Standards A
- 120304-eb-Codes & Standards B

Motor Vehicle Body Repairer (Metal & Paint)

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses (clear lens), CSA-approved safety footwear
- **Other:** Pens, pencils, binder, loose leaf, journal (available in campus bookstore)

Books/Resources for Level 1: Note: Arrangements for I-CAR courses and registration will be made through I-CAR Canada.

- Collision Repair & Refinishing: A Foundation Course for Technicians 2nd Ed, Delmar Cengage, ISBN-13: 978-1-133-60187-6 ISBN-10: 1-133-60187-1
- I-CAR STS-01 Cosmetic Straightening Sheet Metal (week 3)
- I-CAR PLA-03 Plastic and Composite Repair (week 6)
- I-CAR GLA-01 Movable Glass (week 6)

Books/Resources for Level 2:

Carried over from a previous level:

- Collision Repair & Refinishing: A Foundation Course for Technicians 2nd Ed, Delmar Cengage, ISBN-13: 978-1-133-60187-6 ISBN-10: 1-133-60187-1

Books/Resources for Level 3:

Carried over from a previous level:

- Collision Repair & Refinishing: A Foundation Course for Technicians 2nd Ed, Delmar Cengage, ISBN-13: 978-1-133-60187-6 ISBN-10: 1-133-60187-1

Books/Resources for Level 4:

Carried over from a previous level:

- Collision Repair & Refinishing: A Foundation Course for Technicians 2nd Ed, Delmar Cengage, ISBN-13: 978-1-133-60187-6 ISBN-10: 1-133-60187-1

Oil Heat System Technician

Online training: Find your books/resources at Akerley Campus bookstore: 902-491-4916; metro.bookstore@nsc.ca

In-class training: Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear
- **Other:** Pens, pencils, binder, loose leaf, calculator (square root function)

Books/Resources for Group A:

- Canadian Oil Heat Assn. Technicians Manual, 3rd edition

- CSA B-139 / 09 Installation Code for Oil-burning Equipment
- NCCER Core Curriculum Trainee Guide (Introductory Craft Skills)
- CSA Gas Tech 3 Module 7, Customer Relations
- OBMA 1802 Tools and Equipment Course pack
- OBMA 1815 Fuel Storage Course pack
- OBMA 1816 Fuel Delivery Systems Course pack
- OBMA 1817 Planned Maintenance Course pack
- OBMA 1804 Properties of Fuel Oil/Combustion & Efficiency Testing Course pack

Books/Resources for Group B:

- OBMA 1805 Electricity 1 (Principles of Electricity) Course pack
- OBMA 1806 Electricity 2 (Ignition Systems, Electrical Devices & Switches) Course pack
- OBMA 1818 Electricity 3 (Electronics & Solid State)/Motors Course pack
- OBMA 1807 Controls & Wiring Course pack
- OBMA 1809 Combustion Chambers/Chimneys, Vent. & Draft Control Course pack

Carried over from a previous level:

- Canadian Oil Heat Assn. Technicians Manual, 3rd edition
- CSA B-139/09 Installation Code for Oil-burning Equipment

Books/Resources for Group C:

- CSA Gas Tech 2 Training Module 13, The Building as a System
- OBMA 1810 Hydronic Heating Systems Course pack
- OBMA 1811 Warm Air Furnaces/Steam Systems Course pack
- OBMA 1812 Domestic Hot Water Heaters/ Zoning Course pack
- OBMA 1819 House as a System/Retrofit Course pack
- OBMA 1808 Specialized Systems/Service & Troubleshooting Course pack
- OBMA 1820 Program Review Course pack

Carried over from a previous level:

- Canadian Oil Heat Assn. Technicians Manual, 3rd edition
- CSA B-139 / 09 Installation Code for Oil-burning Equipment

Plumber

Online training: Find your books/resources at Akerley Campus bookstore: 902-491-4916; metro.bookstore@nsc.ca

In-class training: Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear
- **Other:** Pens, pencils, binder, loose leaf

Books/Resources for Level 1:

- IPT Pipe Trades Handbook ISBN: 0-920855-18-0

- Mathematics for Plumbers and Pipefitters, 7th Edition ISBN: 1-4018-2110-3
- National Plumbing Code of Canada 2015 IPT
- Safety, Tools and Equipment Course pack ISBN: APIPA0802
- Alberta Individual Learning Module (ILM) Carpenter Explosive Actuated Tools 020102e
- Blueprint Reading and Interpretation I Course pack ISBN: APIPA080
- Pipe, Fittings and Piping Assembly 1A (Ferrous) Course pack ISBN: APLGA1810
- Pipe, Fittings and Piping Assembly 1B (Non-Ferrous) Course pack ISBN: APLGA1811
- Drainage, Waste and Venting Systems 1A Course pack ISBN: APLGA1820
- Drainage, Waste and Venting Systems 1B Course pack ISBN: APLGA1821
- Water supply 1 Course pack ISBN: APLGA1822
- Introduction to Welding and Brazing Course pack

Books/Resources for Level 2:

Level-2 Course Packs, per NSCC Bookstore

Carried over from a previous level:

- IPT Pipe Trades Handbook ISBN: 0-920855-18-0
- Mathematics for Plumbers and Pipefitters, 7th Edition ISBN: 1-4018-2110-3
- National Plumbing Code of Canada 2015 IPT

Books/Resources for Level 3:

- CSA Module Gas Piping 1 ISBN: 9781488301292
- Blueprint reading and interpretation 3 Course pack ISBN: 88880000889
- Hydronic heating 2 Course pack ISBN: 88880007114
- Water Supply 2 Course pack ISBN: 8888000888
- Drainage Waste and Venting 2-C Course pack ISBN: 88880004577

Carried over from a previous level:

- IPT Pipe Trades Handbook ISBN: 0-920855-18-0
- Mathematics for Plumbers and Pipefitters, 7th Edition ISBN: 1-4018-2110-3
- National Plumbing Code of Canada 2015 IPT

Books/Resources for Level 4:

- CSA Module Gas Piping 2 ISBN: 9781488301865
- AWWA Manual Cross Connection Control Manual (AWWA) ISBN: 88880000080
- Drainage and Venting Systems 3 Course pack ISBN: 88880007901
- Water Supply 3 Course pack ISBN: 88880007120
- Specialty Plumbing Applications Course pack ISBN: 88880000754
- Gas Piping 2 Course Pack ISBN: 88880005767
- Cross Connection Control Course pack ISBN: 88880005635
- Program Review Course pack ISBN: 88880009502
- Alberta Individual Learning Module (ILM) Pressure Reducing Valves and Booster Pumps module # 06031H ISBN: 88880009496
- Alberta ILM Intro to Private Water Supply Systems module # 060401A ISBN: 88880007122
- Alberta ILM Pumps for Private Water Supply Systems module # 060401B ISBN: 88880007123

- Alberta ILM Private Water Supply Pressure System Components module # 060401C ISBN: 88880007124
- Alberta ILM Private Water Supply Pressure System Sizing module # 060401D ISBN: 88880007125
- Alberta ILM Intro to Private Sewage Disposal Systems module # 060401H ISBN: 88880009497

Carried over from a previous level:

- IPT Pipe Trades Handbook ISBN: 0-920855-18-0
- Mathematics for Plumbers and Pipefitters, 7th Edition ISBN: 1-4018-2110-3
- National Plumbing Code of Canada 2015 IPT

Power Engineer

Online training: Find your books/resources at www.powerengineering.org (PanGlobal Training Systems) and store.csagroup.org (Canadian Standards Association)

In-class training: Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Other:** Pens, pencils, binder, loose leaf

Books/Resources for 3rd Class:

- The Provincial Stationary Engineer's Act and Regulations
- ASME Section VII, Recommended Rules for Care and Operation of Power Boilers
- CSA Standard B-51
- CSA Standard B-52

Order the following books from this site:

www.powerengineering.org/index.php?option=com_virtuemart&view=category&virtuemart_category_id=25&Itemid=556

- PETS (Pan Global) Third Class Correspondence Course
- Handbook of Formulae and Physical Constants
- Steam Tables in SI Units
- Extract of ASME Section I, Power Boilers

Books/Resources for 2nd Class:

- PETS (Pan Global) Second Class Correspondence Course. Order from this site: www.powerengineering.org/index.php?option=com_virtuemart&view=category&virtuemart_category_id=25&Itemid=556

Carried over from a previous level:

- The Provincial Stationary Engineer's Act and Regulations
- ASME Section VII, Recommended Rules for Care and Operation of Power Boilers
- CSA Standard B-51
- CSA Standard B-52
- Handbook of Formulae and Physical Constants

- Steam Tables in SI Units
- Extract of ASME Section I, Power Boilers

Powerline Technician

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear, hard hat
- **Other:** Pens, pencils, binder, loose leaf, calculator (percentage and square root functions)

Resources for Level 1:

- Level 1 Powerline Technician Course Pack

Resources for Level 2:

- Level 2 Powerline Technician Course Pack

Resources for Level 3:

- Level 3 Powerline Technician Course Pack

Resources for Level 4:

- Level 4 Powerline Technician Course Pack

Refrigeration Plant Operator

Online training: Find your books/resources at www.powerengineering.org (PanGlobal Training Systems) and store.csagroup.org (Canadian Standards Association)

Refrigeration and A/C Mechanic

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear, mechanic-style gloves
- **Tools:** Bring hand tools. Testing and refrigeration tools will be supplied by NSCC.
- **Other:** Pens, pencils, binder, loose leaf

Books/Resources for Level 1:

- Refrigeration and Air Conditioning Technology, 7th Edition
- Electricity, Electronics and Control systems for HVAC, 4th Edition

Books/Resources for Level 2:

Carried over from a previous level:

- Refrigeration and Air Conditioning Technology, 7th Edition
- Electricity, Electronics and Control systems for HVAC, 4th Edition

Books/Resources for Level 3:

- HVAC Control Systems, 3rd edition

Carried over from a previous level:

- Refrigeration and Air Conditioning Technology, 7th Edition
- Electricity, Electronics and Control systems for HVAC, 4th Edition

Books/Resources for Level 4:

Carried over from a previous level:

- Refrigeration and Air Conditioning Technology, 7th Edition
- Electricity, Electronics and Control systems for HVAC, 4th Edition
- HVAC Control Systems, 3rd edition

Sheet Metal Worker

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear
- **Other:**
 - a. Pens
 - b. Pencils (4H & HB)
 - c. Pencil sharpener
 - d. Eraser
 - e. Sand pointer
 - f. Binder
 - g. Loose leaf
 - h. Calculator (scientific)
 - i. Beam compass 961b
 - j. Bow compass
 - k. 7-Piece compass set
 - l. Protractor
 - m. Arc (flexible curve)
 - n. Ruler
 - o. Architect rulers (metric and imperial)
 - p. Drafting triangles (45/90 and 30/60)
 - q. Plastic pouch
 - r. Padlock (optional)

Books/Resources for Level 1:

- NCCER Sheet Metal Level 1

- NCCER SMWA 1854 Sheet Metal Trade Resources

Books/Resources for Level 2:

- Alberta Individual Learning Module (ILM) Residential Blueprint Components-110104c
- Alberta ILM HVAC Blueprints-110104d
- Alberta ILM HVAC Material Takeoff-110104e
- Alberta ILM Pipe Tees - Part A-110202bA
- Alberta ILM Round Elbows and Offsets-110102k
- Alberta ILM Round to Round Reducers-110202i
- Alberta ILM Truncated Cones-110302f
- Alberta ILM Square and Rectangular to Round-110202h
- Alberta ILM Transitions and Twists - Part A-110202dA
- Alberta ILM Transitions and Twists - Part B-110202dB
- Alberta ILM Multi-Equipment Systems-110204a
- Alberta ILM Gas Tungsten Arc Welding (GTAW)-110303f
- Alberta ILM Residential HVAC Components-110104f
- Alberta ILM Light Commercial Installation Procedures-110204e
- Alberta ILM Commercial Building Structures-110204c
- Alberta ILM Residential Installations and Codes-110104h
- Alberta ILM Fire and Smoke Containment-110204f
- Alberta ILM Rigging-110101e
- Alberta ILM Blueprint Package - Castilian Plan-DP110104i

Books/Resources for Level 3:

- Alberta Individual Learning Module (ILM) Shop Drawings-110204d
- Alberta ILM Finials-110102j
- Alberta ILM Pipe Tees, Part B-110202bB
- Alberta ILM Pipe Tees on Cones, Part A-110302gA
- Alberta ILM Pipe Tees on Cones, Part B-110302gB
- Alberta ILM Triangulation from Elevation- Part A-110302bA
- Alberta ILM Reducing Round Elbows-110302c
- Alberta ILM Round Reducing Y-Branched-110302e
- Alberta ILM Advanced Radial Line-110402e
- Alberta ILM Air flow-110301d
- Alberta ILM Heat Loss and Heat Gain-110301b
- Alberta ILM Round Reducing Offsets-110302d
- Alberta ILM Temperature, Humidity and Ventilation-110201e
- Alberta ILM Air Filtration, Circulation and Noise-110201f
- Alberta ILM Appliance Venting, Part A-110201dA
- Alberta ILM Appliance Venting, Part B-110201dB
- Alberta ILM Mild Steel Electrodes-120102b (Welding)
- Alberta ILM SMAW Equipment-120102a (Welding)

Books/Resources for Level 4:

- Alberta Individual Learning Module (ILM) Roofing-110201a

- Alberta ILM Related Math Skills-110201g
- Alberta ILM Air Balancing-110405d
- Alberta ILM Commercial Kitchen Exhaust Systems-110401g
- Alberta ILM Testing and Troubleshooting-110305d
- Alberta ILM Commercial Air Filters and Sound Control-110401e
- Alberta ILM Basic Electricity and Electrical Meters-110205a
- Alberta ILM Stainless Steel Fabrication-110303b
- Alberta ILM SMACNA Specification Fabrication-110303e
- Alberta ILM Duct Construction-110304b
- Alberta ILM Architectural and Custom Sheet Metal-110304f
- Alberta ILM Cladding and Lagging-110403a
- Alberta ILM Mechanical Air Movement and Control-110401c
- Alberta ILM Industrial Exhaust-110401f
- NAIT Welder ILM Oxyfuel Equipment-120101g
- NAIT Welder ILM Oxyfuel Welding, Brazing and Braze Welding-120101h
- NAIT Welder ILM Oxyfuel Cutting-120101i

Steamfitter/Pipefitter

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses, CSA-approved safety footwear
- **Other:** Pens, pencils, binder, loose leaf, calculator

Books/Resources for Level 1:

- Rigging Manual- Construction Safety Association of Ontario (Infrastructure Health & Safety Association) ISBN 9781894761055
- IPT Pipe Trades Handbook by Robert Lee (available at local union for a fee of \$20.00 or through the bookstore)
 - [STMA1865/66 Safety and Communication Tools and Equipment](#)
 - STMA1865/66 Course Pack
 - Alberta Module 070102j Bolts and Fasteners
 - [STMA1867 Drawings and Specifications 1](#)
 - STMA1867 Course Pack
 - [STMA1868 Rigging and Hoisting](#)
 - CSAO Rigging Manual (as used in Industrial Rigging)
 - STMA MATH Math and Rigging course pack
 - [STMA1869 Welding and Brazing](#)
 - Alberta Module 070105F Mild Steel Electrodes
 - Alberta Module 070105A Oxy Fuel Equipment
 - Alberta Module 070105C Oxy Fuel Cutting

- Alberta Module 070105D SMAW Equipment
STMA1870 Pipe and Tubing
- Alberta Module 070201F Hangers and Supports
- IPT Pipe Trades Handbook
STMA1871 Ferrous Piping
- STMA1871 Course Pack
- Alberta Module 070102A Threaded Pipe
- Alberta Module 070102B Welded and Flanged Pipe
STMA1872 Non-Ferrous Piping
- STMA1872 Course Pack
- Alberta Module 0701021 PIPE BENDING THEORY
- Alberta Module 070205A HEAT TRACING VALVE BASKETS
- Alberta Module 070102G Plastic Pipe
- Alberta Module 070102e Valves

Books/Resources for Level 2:

Carried over from a previous level:

- Rigging Manual- Construction Safety Association of Ontario (Infrastructure Health & Safety Association) ISBN 9781894761055
- IPT Pipe Trades Handbook by Robert Lee (available at local union for a fee of \$20.00 or through the bookstore)
STMA 1873 Drawings and Specifications 2
- STMA 1873 Course Pack
STMA 1851 Template Development
- STMA 1851 Course Pack
- Alberta ILM Miter Elbow
- Alberta ILM Stainless Steel Miter
- Dummy Leg
STMA 1874 Hydronic Systems
- 1874 Course Pack
- Alberta ILM Heat Tracing Valve Baskets
- Introduction to Pumps
STMA 1875 Fibreglass and Specialty Piping
- Alberta ILM Plastic and Lined Pipe
- Alberta ILM Fibreglass Pipe
- Alberta ILM Alloy Piping
STMA 1849 Introduction to Electricity
- N/A

Books/Resources for Level 3:

Carried over from a previous level:

- Rigging Manual- Construction Safety Association of Ontario (Infrastructure Health & Safety Association) ISBN 9781894761055

- IPT Pipe Trades Handbook by Robert Lee (available at local union for a fee of \$20.00 or through the bookstore)
STMA 1809 Hydronic Heating 2 (Commercial)
- STMA 1809 Course pack
STMA 1844 Low Pressure Steam
- STMA 1844 Course Pack
STMA 1851 Pipe Template Development
- STMA 1851 Course Pack
- Alberta ILM 070205b Mitered Elbow
- Alberta ILM 070207g Stainless Steel Miter
- Alberta ILM 070207f Dummy Legs
STMA 1853 Gas Piping 1
- CSA Module 3
STMA 1860 Specialty Piping Applications
- STMA 1860 Course pack
- Alberta ILM 070204a
- Alberta ILM 070204b
- Alberta ILM 070204c

Books/Resources for Level 4:

Carried over from a previous level:

- Rigging Manual- Construction Safety Association of Ontario (Infrastructure Health & Safety Association) ISBN 9781894761055
- IPT Pipe Trades Handbook by Robert Lee (available at local union for a fee of \$20.00 or through the bookstore)
STMA 1854 Gas Piping 2
- STMA 1854 Course pack
- CSA Module 15 Gas Tech
STMA 1855 Refrigeration/Instrumentation
- STMA 1855 Course pack
- Alberta ILM 070301b Basic Refrigeration Systems
- Alberta ILM 070305n Cooling Towers and Heat Exchangers
STMA 1840 Pumps/Compressors and Hydraulic Systems 1
- STMA 1840/1850 Course Pack
- Alberta ILM 070201j Introduction to Pumps
- Alberta ILM 070201o Hydronic Heating and Cooling - Pumps
STMA 1850 Pumps/Compressors and Hydraulic Systems 2
- STMA 1840/1850 Course Pack

STMA 1856 High Pressure Steam 1
- STMA 1856 Course Pack
- Alberta ILM 070201L Expansion and Contraction Control
STMA 1861 Job Planning Commissioning and Quality Control

- Alberta ILM 070304a Quality Control
- Alberta ILM 070304b Job Planning New Construction
- Alberta ILM 070304c Job Planning Maintenance Project
- Alberta ILM 070102L Intro to Pressure Testing

Truck and Transport Mechanic

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

- **Personal Protective Equipment:** CSA-approved safety glasses (clear lens), CSA-approved safety footwear
- **Other:** Pens, colored pens (optional), pencils, highlighters (optional), binder, loose leaf, journal (available in campus bookstore), Apprentice Logbook, optional: calculator (basic math functions, percentage, square root, metric converter and inverse/rectangular functions)

Books/Resources for Level 1:

- Heavy Duty Truck Systems, 5th Edition
- Medium Heavy Duty Truck Engines, Current Edition
- Hydraulics (Fundamentals of Service), John Deere Co.
- Alberta Individual Learning Module (ILM) 120101C Welding Safety
- Alberta ILM Oxy-fuel Equipment 120101G
- Alberta ILM Oxy-fuel Welding & Braze Welding 120101H
- Alberta ILM Oxy-fuel Cutting 120101i
- Alberta ILM SMAW Welding 120102A
- Alberta ILM Mild Steel Electrodes 120102B
- Alberta ILM SMAW Welds on Mild Steel 120102d
- Alberta ILM GMAW Equip 120103A
- Alberta ILM GMAW Filler Metals, Shielding Gases & Safety 120103B
- Alberta ILM FCAW 120103d
- Alberta ILM Measuring Tools 190101e
- Alberta ILM Materials and Fastening Devices 190101c
- Alberta ILM Lifting Procedures and Wire Rope 190101b
- Alberta ILM Bearings and Seals 190102c
- Alberta ILM Hydraulic Brake Systems 190103b
- Alberta ILM Hydraulic Brake Booster Fundamentals and Service 190103d
- Alberta ILM Parking Brake System Fundamentals and Service 190103e
- Alberta ILM Electric Brake Fundamentals and Service 190103f
- Alberta ILM Electric Wiring Lighting Circuits and Circuit Protection 190104f a and b
- Alberta ILM Electrical Circuits 190104b
- Alberta ILM Truck Electrical Circuit Fundamentals 190405A a and b
- Alberta ILM Engine Fundamentals 190201a

Books/Resources for Level 2:

- Alberta Individual Learning Module (ILM) Magnetism 190104c
- Alberta ILM Ignition System Fundamentals A190403A
- Alberta ILM Alternate Fuels A190403c
- Alberta ILM Diesel Fuel and Storage Tanks 190203a
- Alberta ILM Combustion Process and Starting Aids 190203b
- Alberta ILM Lube Systems and Crankcase Ventilation 190202c
- Alberta ILM Air Induction and Exhaust Systems 190202a
- Alberta ILM Turbocharged Air Systems 190202b
- Alberta ILM Transmission Fundamentals Part B 190401db
- Alberta ILM Transmission Fundamentals Part A 190401da
- Alberta ILM Transmission Shifting 190401e
- Alberta ILM Transmission Service 190401f
- Alberta ILM Non-electrical Crank 190205f
- Alberta ILM Air Conditioning Fundamentals 190403a
- Alberta ILM HVAC Control Systems 190403b
- Alberta ILM Air Conditioning Testing and Service 190403C a & b

Carried over from a previous level:

- Heavy Duty Truck Systems, 5th Edition
- Medium Heavy Duty Truck Engines, Current Edition

Books/Resources for Level 3:

Alberta Individual Learning Modules (ILM)

- 090303c AST Fuel Tanks and Supply Systems
- 090303d AST Fuel Injection System Fundamentals
- 090303e AST Fuel Injection System Diagnosis and Service
- 090304a AST Exhaust Gas Recirculation Systems
- 190102a HET Frame and Suspension Fundamentals
- 190102b HET Frame and Suspension Service
- 190102c HET Bearings and Seals
- 190102d HET Wheels, Tires and Hubs
- 190102e HET Trailer Systems and Components
- 190102f HET Coupling Units Fundamentals and Service
- 190102g HET Landing Gear Fundamentals and Service
- 190201I HET Engine Braking System Fundamentals and Service
- 190204a HET Electronic Fuel System Fundamentals
- 190303a HET Gearing Principles
- 190303b HET Torque Converter Fundamentals and Service
- 190303c HET Powershift and Automatic Transmission Mechanical/Electronic Components
- 190303d HET Powershift and Automatic Transmission Control and Shifting
- 190303e HET Hydraulic Retarder Fundamentals
- 190303f HET Powershift and Automatic Transmission Testing and Service
- 190402a HET Steering Fundamentals
- 190402b HET Steering Service

- 190402c HET Steering Angles and Alignment
- 190402d HET Air Antilock Brake Systems
- 190402e HET Air Antilock Brake System Diagnosis
- 190404aA HET Truck Electrical Circuit Fundamentals - Part A
- 190404aB HET Truck Electrical Circuit Fundamentals – Part B
- 190404b HET Truck Electrical Circuit Service

Carried over from a previous level:

- Heavy Duty Truck Systems, 5th Edition
- Medium Heavy Duty Truck Engines, Current Edition

Books/Resources for Level 4:

Carried over from a previous level:

- Heavy Duty Truck Systems, 5th Edition
- Medium Heavy Duty Truck Engines, Current Edition

Welder

Please bring the following items to your **first** class. If you don't have the books, you can purchase them at your NSCC Campus Bookstore on the first day of class.

Personal Protective Equipment:

- a. CSA-approved safety glasses, CSA-approved safety footwear (all leather), welding gloves, welding shield
- b. Coveralls with visible ID and leather split leg or full apron combination (minimum requirement) for all participants involved in welding and cutting operations;
OR
- c. Leather welding jacket and leather split leg or full apron combination must be worn during all welding and cutting processes. All clothing underneath must cover the leg fully and be made from natural fibres such as wool or cotton.

Other: Pens, pencils, binder, loose leaf

Books/Resources for Levels 1 and 2:

- Alberta Individual Learning Module (ILM) 120101b Climbing, Lifting, Rigging & Hoisting 4.0
- Alberta ILM 120101c Hazardous Materials and Fire Protection 4.0
- Alberta ILM 120101e Welding Safety 9.1
- Alberta ILM 120101f Hand Tools 6.1
- Alberta ILM 120101g Power Tools 7.1
- Alberta ILM 120101h Oxyfuel Equipment 9.1
- Alberta ILM 120101i Oxyfuel Cutting 8.1
- Alberta ILM 120101j Plasma Arc Cutting and Gouging 4.2
- Alberta ILM 120101k Materials Handling 10.1
- Alberta ILM 120102a Drawing Interpretation 10.2
- Alberta ILM 120102b Electricity 7.1
- Alberta ILM 120102e Joints and Weld Types 5.1

- Alberta ILM 120102f Welding Symbols 8.1
- Alberta ILM 120102g Distortion 5.1
- Alberta ILM 120102h Weld Faults 7.0
- Alberta ILM 120103a Wire Feed Welding Equipment Power Sources 8.2
- Alberta ILM 120103b Wire Feed Welding Filler Metals and Feeders 8.0
- Alberta ILM 120103c Wire Feed Welding Shielding Gases 6.2
- Alberta ILM 120103d Wire Welding Maintenance and Troubleshooting 6.2
- Alberta ILM 120103e GMAW on Mild Steel 6.2
- Alberta ILM 120103f FCAW and MCAW on Mild Steel 7.1
- Alberta ILM 120103g GMAW, FCAW and MCAW Groove Welds on Mild Steel 4.2
- Alberta ILM 120103k Submerged Arc Welding (SAW) 7.1
- Alberta ILM 120104a Fractions 6.1
- Alberta ILM 120104b Decimals 8.0
- Alberta ILM 120104e Metric and Imperial Measure 5.0
- Alberta ILM 120201a SMAW Equipment 6.2
- Alberta ILM 120201b Mild Steel Electrodes 7.0
- Alberta ILM 120201c SMAW Fillet Welds on Mild Steel 5.2
- Alberta ILM 120201d Production of Metals 6.2
- Alberta ILM 120201e Carbon and Alloy Steels and Alloy Steel Filler Metals 8.1
- Alberta ILM 120202a The GTAW Process 5.2
- Alberta ILM 120202b GTAW Electrodes, Filler Metals and Shielding Gases 6.0
- Alberta ILM 120202c GTAW Equipment Maintenance and Troubleshooting 4.1
- Alberta ILM 120202d GTAW on Mild Steel 6.0
- Alberta ILM 120203a Pattern Development 8.1
- Alberta ILM 120203b Layout 3.2
- Alberta ILM 120204a SMAW Groove Welds on Mild Steel 8.1
- Alberta ILM 120301c SMAW and Oxyfuel Cutting on Mild Steel 9.1
- Alberta ILM 120303a Structural Drawings 10.0
- Alberta ILM DP120303a Drawing Package, Structural Drawings 1.2
- Alberta ILM A120101h Oxy-fuel Welding, Brazing and Braze Welding 6.3

Books/Resources for Level 3:

- Optional: IPT Metal Trades Training Manual Ronald G. Garby & Bruce J. Ashton 0-920855-32-6
- Alberta Individual Learning Module (ILM) 120102c Metal Identification v. 4.1
- Alberta ILM 120102d Heat Treatment v. 8.0
- Alberta ILM 120102i Hardfacing v. 4.2
- Alberta ILM 120103h Aluminum and Aluminum Welding v. 5.2
- Alberta ILM 120103i GMAW on Aluminum v. 6.2
- Alberta ILM 120103j GMAW, FCAW and MCAW on Mild Steel Pipe v. 4.2
- Alberta ILM 120104c Percentage and Ratios v. 6.2
- Alberta ILM 120104d Geometric Formulas v. 9.0
- Alberta ILM 120202e GTAW on Aluminum v. 6.1
- Alberta ILM 120202f GTAW on Stainless Steel v. 5.1

- Alberta ILM 120203c Estimating Principles v. 8.1
- 120203d Project Estimating v. 9.0
- Alberta ILM 120301a Stainless Steel v. 6.2
- Alberta ILM 120301b Nickel Alloys and Clad Steels v. 4.2
- Alberta ILM 120302a GTAW on Mild Steel Plate and Pipe v. 7.0
- Alberta ILM 120303b Pressure Vessel Drawings v. 11.0
- Alberta ILM 120304a Non-Destructive Testing v. 5.1
- Alberta ILM 120304b Destructive Testing v. 8.1
- Alberta ILM 120304c Metallurgy for Practical Applications v. 5.2
- Alberta ILM 120304dA Codes and Standards - Part A v. 8.1
- Alberta ILM 120304dB Codes and Standards - Part B v. 7.2
- Alberta ILM DP120303b Drawing Package, Pressure Vessel Drawings v. 2.1
- Alberta ILM DP120303c Drawing Package, Piping Drawings v. 1.2