

Trades, Manufacturing & Transportation (TMT) Courses		
Introductory Level	Intermediate Level	Advanced Level
Construction (CON) - 54 courses		
CON1010: Construction Tools & Materials	CON2010: Site Preparation	CON3010: Concrete – Structures & Finishes
CON1070: Building Construction	CON2020: Concrete Forming	CON3020: Masonry Work – Structures & Finishes
CON1120: Product Management	CON2030: Alternative Foundations	CON3030: Wall & Ceiling Finishing
CON1130: Solid Stock Construction	CON2035: Framing Systems – Floor	CON3040: Stair Construction
CON1140: Turning Operations	CON2045: Framing Systems – Wall	CON3050: Roof Structures 2
CON1160: Manufactured Materials	CON2050: Roof Structures 1	CON3060: Doors & Trim
CON1180: Mould Making & Casting	CON2060: Doors, Windows & Siding	CON3070: Floorcovering
CON1910: CON Project A	CON2070: Electrical Systems	CON3080: Energy-efficient Housing
	CON2080: Plumbing Systems	CON3090: Renovations/Restorations
	CON2090: Climate Control Systems	CON3105: Commercial Structures
	CON2100: Agri-structures	CON3110: Site Management
	CON2120: Multiple Materials	CON3120: Tool Maintenance
	CON2130: Furniture – Box Construction	CON3130: Furniture – Leg & Rail
	CON2140: Furniture – Frame & Panel	CON3140: Furniture – Surface Enhancement
	CON2150: Finishing & Refinishing	CON3150: Furniture Repair
	CON2160: Cabinetmaking – Web & Face Frame	CON3160: Cabinetmaking – Cabinets & Countertops
	CON2170: Cabinetmaking – Door & Drawer	CON3170: Cabinetmaking – Layout & Installation
	CON2180: Wood Forming	CON3190: Production Planning
	CON2190: Manufacturing Systems	CON3200: Production Management
	CON2200: Product Development	CON3210: Framing Systems – Advanced
	CON2910: CON Project B	CON3910: CON Project D
	CON2920: CON Project C	CON3920: CON Project E
	CON2950: CON Intermediate Practicum	CON3950: CON Advanced Practicum
Credentialed Pathway: Carpenter (CRA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Electrician (ETA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Insulator (INA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Painter & Decorator (PDA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Plumber (PLA) First Period Apprenticeship		
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Electro-Technologies (ELT) - 42 courses		
ELT1010: Electro-assembly 1	ELT2010: Electro-assembly 2	ELT3010: Electro-assembly 3
ELT1030: Conversion & Distribution	ELT2020: Electrical Servicing	ELT3020: Electronic Servicing
ELT1050: Electronic Power Supply 1	ELT2030: Branch Circuit Wiring	ELT3030: Power Systems & Services
ELT1080: Control Systems 1	ELT2050: Electronic Power Supply 2	ELT3040: Generation/Transformation
ELT1090: Analog Communication 1	ELT2080: Control Systems 2	ELT3110: Amplifiers
ELT1110: Security Systems 1	ELT2090: Analog Communication 2	ELT3140: Motors
ELT1130: Robotics 1	ELT2110: Security Systems 2	ELT3150: Robotics 3
ELT1140: Robotics Applications	ELT2120: Electro-optics	ELT3160: Control Applications
ELT1910: ELT Project A	ELT2130: Magnetic Control Devices	ELT3170: Robotics Microprocessors
	ELT2140: Robotics 2	ELT3180: Robotics Vision Systems
	ELT2150: Electronic Controls	ELT3190: Robotics Kinematics & Behaviour
	ELT2160: Robotics Sensor 1	ELT3200: Robotics Artificial Intelligence
	ELT2170: Robotics Sensor 2	ELT3205: Expert Systems
	ELT2180: Process Control	ELT3910: ELT Project D
	ELT2910: ELT Project B	ELT3920: ELT Project E
	ELT2920: ELT Project C	ELT3950: ELT Advanced Practicum
	ELT2950: ELT Intermediate Practicum	
Credentialed Pathway: Communication Technician (CTA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Instrument Technician (ISA) First Period Apprenticeship		
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Fabrication (FAB) - 51 courses		
FAB1010: Fabrication Tools & Materials	FAB2010: Structural Engineering	FAB3010: Materials Testing
FAB1040: Oxyacetylene Welding	FAB2020: Print Reading	FAB3020: Metallurgy Fundamentals
FAB1048: Semi-automated/Automated Welding	FAB2030: Oxyfuel Welding	FAB3030: Gas Tungsten Arc Welding
FAB1050: Basic Electric Welding	FAB2040: Thermal Cutting	FAB3040: Specialized Welding
FAB1090: Sheet Fabrication 1	FAB2048: Flux Cored Arc Welding 1	FAB3048: Flux Cored Arc Welding 2
FAB1100: Fabrication Principles	FAB2050: Arc Welding 1	FAB3050: Arc Welding 3
FAB1110: Bar & Tubular Fabrication	FAB2060: Arc Welding 2	FAB3060: Arc Welding 4
FAB1120: Foundry – One-piece Pattern	FAB2070: Gas Metal Arc Welding 1	FAB3070: Pipe & Tubular Welding
FAB1130: Principles of Machining	FAB2090: Sheet Fabrication 2	FAB3080: Automated Welding
FAB1160: Production Systems	FAB2100: Sheet Fabrication 3	FAB3090: Sheet Fabrication 4
FAB1910: FAB Project A	FAB2110: Forging Fundamentals	FAB3110: Sheet Fabrication 5
	FAB2120: Foundry – Split Pattern	FAB3120: Foundry – Core Moulding
	FAB2130: Precision Turning 1	FAB3130: Precision Turning 2
	FAB2140: Precision Milling 1	FAB3140: Precision Milling 2
	FAB2150: CNC Turning	FAB3150: CNC Milling
	FAB2160: Custom Fabrication	FAB3160: Prefabrication Principles
	FAB2170: Pipe Fitting	FAB3170: Gas Metal Arc Welding 2
	FAB2910: FAB Project B	FAB3910: FAB Project D
	FAB2920: FAB Project C	FAB3920: FAB Project E
	FAB2950: FAB Intermediate Practicum	FAB3950: FAB Advanced Practicum
Credentialed Pathway: Millwright (MWA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Welder (WDA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Logistics (LOG) - 19 courses		
LOG1010: Logistics	LOG2010: Warehouse & Distribute 2	LOG3010: Warehouse & Distribute 3
LOG1020: Warehouse & Distribute 1	LOG2020: Traffic & Transport 2	LOG3020: Traffic & Transport 3
LOG1030: Traffic & Transport 1	LOG2030: Purchasing 2	LOG3030: Purchasing 3
LOG1040: Purchasing 1	LOG2040: Inventory Management 1	LOG3040: Inventory Management 2
LOG1910: LOG Project A	LOG2910: LOG Project B	LOG3910: LOG Project D
	LOG2920: LOG Project C	LOG3920: LOG Project E
	LOG2950: LOG Intermediate Practicum	LOG3950: LOG Advanced Practicum

Trades, Manufacturing & Transportation (TMT) Courses		
Introductory Level	Intermediate Level	Advanced Level
Mechanics (MEC) - 63 courses		
MEC1010: Modes & Mechanisms	MEC2010: Vehicle Detailing	MEC3010: Buying & Selling Vehicles
MEC1015: Mechanics Tools & Materials	MEC2020: Vehicle Maintenance	MEC3020: Vehicle Value Appraisal
MEC1020: Vehicle Service & Care	MEC2030: Lubrication & Cooling	MEC3030: Engine Diagnosis
MEC1040: Engine Fundamentals	MEC2040: Fuel & Exhaust Systems	MEC3040: Engine Tune-up
MEC1090: Electrical Fundamentals	MEC2050: Alternative Fuel Engines	MEC3050: Engine Replacement
MEC1110: Pneumatics & Hydraulics	MEC2060: Ignition Systems	MEC3060: Engine Reconditioning – Head
MEC1130: Mechanical Systems	MEC2070: Emission Controls	MEC3070: Engine Reconditioning – Block
MEC1150: Ride & Control Systems	MEC2090: Electrical Components	MEC3080: Alternative Energy Systems
MEC1160: Structures & Materials	MEC2100: Power Assist Accessories	MEC3090: Computer Systems
MEC1165: Mechanics Welding Fundamentals	MEC2110: Braking Systems	MEC3100: Safety Systems
MEC1170: Metal Forming & Finishing	MEC2120: Hydraulic Accessories	MEC3110: Climate Control
MEC1190: Surface Preparation 1	MEC2130: Drive Line	MEC3120: Power Assisting
MEC1910: MEC Project A	MEC2140: Transmissions/Transaxles	MEC3130: Automatic Transmissions
	MEC2150: Suspension Systems	MEC3140: Drive Train Repair
	MEC2160: Steering Systems	MEC3150: Wheel Alignment
	MEC2170: Metal Repair & Finishing	MEC3160: Body Repair Estimation
	MEC2180: Trim Replacement	MEC3170: Damage Analysis
	MEC2190: Surface Preparation 2	MEC3180: Damage Repair 1
	MEC2200: Refinishing 1	MEC3190: Damage Repair 2
	MEC2210: Touch-up & Finishing	MEC3200: Refinishing 2
	MEC2220: Interior Repairs	MEC3210: Plastic & Fibreglass
	MEC2910: MEC Project B	MEC3220: Glass Replacement
	MEC2920: MEC Project C	MEC3230: Refinishing 3
	MEC2950: MEC Intermediate Practicum	MEC3910: MEC Project D
		MEC3920: MEC Project E
		MEC3950: MEC Advanced Practicum
Credentialed Pathway: Agricultural Equipment Technician (AEA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Auto Body Technician (ABA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Automotive Service Technician (ASA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Heavy Equipment Technician (HEA) First Period Apprenticeship		
See Apprenticeship information on Alberta Education website.		
Credentialed Pathway: Parts Technician (PTA) First Period Apprenticeship		
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Trades, Manufacturing & Transportation (TMT) Courses		
Introductory Level	Intermediate Level	Advanced Level
5th Class Power Engineering (PEN) - 15 courses		
		PEN3400: Safety & Codes PEN3405: Applied Science PEN3410: Electricity & Welding PEN3415: Plumbing & Piping PEN3420: Boiler Details PEN3425: Boiler Operation PEN3430: Heating Systems PEN3435: Human Comfort PEN3440: Refrigeration Theory PEN3445: Heating & Cooling PEN3450: AC & Refrigeration PEN3455: Pumps & Compression PEN3460: Water Treatment PEN3465: PEN Practicum A PEN3465: PEN Practicum B

Trades, Manufacturing & Transportation (TMT) Courses**Introductory Level****Intermediate Level****Advanced Level****4th Class Power Engineering (PEN) - 25 courses**

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