

CTS Apprenticeship Course List

Agricultural Equipment Technician (AEA) - 19 courses

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

Auto Body Technician (ABA) - 14 courses

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

Automotive Service Technician (ASA) - 19 courses

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

Baker (BKA) - 18 courses

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

Cabinetmaker (CMA) - 19 courses

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

Carpenter (CRA) - 19 courses

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

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Communication Technician (CTA) - 15 courses

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

Cook (CKA) - 19 courses

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

Electrician (ETA) - 19 courses

ETA3400: Electrical Principles	ETA3435: Switching Circuits	ETA3470: ETA Practicum A
ETA3405: Electrical Concepts	ETA3440: Relays & Controls	ETA3475: ETA Practicum B
ETA3410: Resistive Circuits	ETA3445: Switches & Alarms	ETA3480: ETA Practicum C
ETA3415: Edison 3-Wire System	ETA3450: Introduction to Code	ETA3485: ETA Practicum D
ETA3420: Power & Efficiency	ETA3455: Conductors & Grounding	ETA3900: Apprenticeship Safety
ETA3425: Batteries & Magnetism	ETA3460: Wiring & Installation	
ETA3430: Meters & Connections	ETA3465: Diagrams & Drawings	

Hairstylist First Period (HSA) - 25 courses (updated in 2019)

HSA3406: Work Environment	HSA3451: Demonstrate the Principles of Haircutting	HSA3496: Facial and Nape Hair Trimming and Removal
HSA3411: Head Anatomy and Physiology	HSA3456: Demonstrate Haircutting on Various Types of Hair	HSA3501: Style Hair
HSA3416: Haircutting Tools and Equipment	HSA3461: Razor Cutting and Shear Cutting	HSA3775: HSA Practicum A
HSA3421: Consultation and Draping	HSA3466: Clipper Cutting	HSA3780: HSA Practicum B
HSA3426: Salon Operations	HSA3471: Texturizing Techniques	HSA3785: HSA Practicum C
HSA3431: Hair and Scalp Analysis	HSA3476: Various Haircuts	HSA3790: HSA Practicum D
HSA3436: Shampoo and Condition Hair	HSA3481: Customizing Techniques	HSA3900: Apprenticeship Safety
HSA3441: Principles of Haircutting and Styles	HSA3486: Haircutting Techniques	
HSA3446: Customizing Haircuts	HSA3491: Facial and Nape Hair Theory	

Hairstylist Second Period (HSA) - 21 courses (updated in 2019)

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

Heavy Equipment Technician (HEA) - 19 courses

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

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Industrial Mechanic (Millwright) (MWA) - 18 courses (updated in 2020)

MWA3401: Hand Tools	MWA3421: Manual Machines 1	MWA3451: Machine Installation
MWA3405: Measurement	MWA3426: Manual Machines 2	MWA3460: MWA Practicum A
MWA3406: Power Tools	MWA3431: Machining Operations 1	MWA3465: MWA Practicum B
MWA3411: Technical Drawings	MWA3436: Machining Operations 2	MWA3470: MWA Practicum C
MWA3416: Layouts	MWA3441: Machining Operations 3	MWA3475: MWA Practicum D
MWA3420: Fasteners	MWA3446: Machining Operations 4	MWA3900: Apprenticeship Safety

Instrumentation and Control Technician (ISA) - 19 courses

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

Insulator (INA) - 16 courses

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

Landscape Horticulturist (LGA) - 19 courses

LGA3406: Equipment and Tools	LGA3446: Environmental Stewardship and Water Quality	LGA3475: LGA Practicum A
LGA3411: Vehicle Transportation and Operation	LGA3451: Soil Management 1	LGA3480: LGA Practicum B
LGA3416: Site Maintenance	LGA3456: Soil Management 2	LGA3485: LGA Practicum C
LGA3425: Plant Taxonomy	LGA3461: Soilless Growing Media	LGA3490: LGA Practicum D
LGA3435: Botany 1	LGA3466: Turfgrass	LGA3900: Apprenticeship Safety
LGA3440: Botany 2	LGA3471: Fertilization	
LGA3441: Ecosystems	LGA3473: Exterior Softscape Maintenance	

Painter & Decorator (PDA) - 17 courses

PDA3400: Material Selection	PDA3435: Painting Application 1	PDA3465: PDA Practicum A
PDA3405: Surface Prep Theory 1	PDA3440: Painting Application 2	PDA3470: PDA Practicum B
PDA3410: Surface Prep Theory 2	PDA3445: Spraying Theory	PDA3475: PDA Practicum C
PDA3415: Surface Prep 1	PDA3450: Spraying Procedures	PDA3480: PDA Practicum D
PDA3420: Surface Prep 2	PDA3455: Trade Math	PDA3900: Apprenticeship Safety
PDA3430: Painting Theory	PDA3460: Trade Geometry	

Parts Technician (PTA) - 15 courses

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

CTS Apprenticeship Course List

Pipe Trades (PLA) (Gasfitter, Plumber, Sprinkler Systems Installer, and Steamfitter-Pipefitter) - 19 courses (updated in 2020)

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

Welder (WDA) - 19 courses

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