



TRADES ACADEMY

Building Skills For A Lifetime

SCHEDULE OF TUITION & FEES OCTOBER 2008

GCA TRADES ACADEMY SCHEDULE OF TUITION & FEES

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GCA TRADES ACADEMY SCHEDULE OF TUITION & FEES

CORE CURRICULUM

The Core Curriculum is a NCCER prerequisite to all Level 1 completions.

Level	Module	Description	Units	Tuition	Text
Core	00101-04	Basic Safety	6	\$180.00	\$55.00
	00102-04	Introduction to Construction Math	6	\$180.00	
	00103-04	Introduction to Hand Tools	4	\$270.00	
	00104-04	Introduction to Power Tools	2		
	00105-04	Introduction to Blueprints	3	\$240.00	
	00106-04	Basic Rigging	8		
	00107-04	Basic Communication Skills	2	\$240.00	
	00108-04	Basic Employability Skills	6		

The GCA Trades Academy is non-profit, non-government organization established in 2006 to provide nationally-recognized training programs for the construction and related industries. The GCA Trade Academy is a National Center for Construction Education and Research (NCCER) Accredited Training Unit, under the sponsorship of the Guam Contractors Association.

The GCA Trades Academy, Inc. is committed to the principle of equal opportunity in education and employment. The GCA Trades Academy does not discriminate against individuals on the basis of race, color, sex, sexual orientation, gender identity, religion, disability, age, veteran status, ancestry, or national or ethnic origin in the administration of its educational policies, admissions policies, employment policies, scholarship and loan programs, and other programs and activities, except where sex or age is a bona fide occupational qualification. Discrimination based on disability in educational programs and activities and employment with the GCA Trades Academy is prohibited.

The GCA Trades Academy expects all of its students and employees to join together to ensure a climate of diversity where everyone values individual and group differences, respects the perspectives of others and communicates openly to attain the best education.



Accredited Training Unit

PLUMBING

Level	Module	Description	Units	Tuition	Text
One	02101-05	Introduction to the Plumbing Industry	2	\$300.00	\$75.00
	02102-05	Plumbing Safety	8		
	02103-05	Plumbing Tools	3	\$90.00	
	02104-05	Introduction to Plumbing Math	3	\$90.00	
	02105-05	Introduction to Plumbing Drawings	5	\$150.00	
	02106-05	Plastic Pipe and Fittings	4	\$120.00	
	02107-05	Copper Pipe and Fittings	4	\$120.00	
	02108-05	Cast-Iron Pipe and Fittings	5	\$150.00	
	02109-05	Carbon Steel Pipe and Fittings	4	\$150.00	
	02110-05	Corrugated Stainless Steel Tubing	1		
	02111-05	Fixtures and Faucets	2	\$60.00	
	02112-05	Introduction to Drain, Waste, and Vent (DWV) Systems	4	\$120.00	
	02113-05	Introduction to Water Distribution Systems	4	\$120.00	
Two	02201-05	Plumbing Math Two	6	\$180.00	\$110.00
	02202-05	Reading Commercial Drawings	8	\$240.00	
	02203-05	Hangers, Supports, Structural Penetrations, and Fire Stopping	4	\$120.00	
	02204-05	Installing and Testing DWV Piping	10	\$300.00	
	02205-05	Installing Roof, Floor, and Area Drains	2	\$60.00	
	02206-05	Types of Valves	2	\$60.00	
	02207-05	Installing and Testing Water Supply Piping	8	\$240.00	
	02208-05	Installing Fixtures, Valves, and Faucets	8	\$240.00	
	02209-05	Introduction to Electricity	6	\$180.00	
	02210-05	Installing Water Heaters	2	\$60.00	
	02211-05	Fuel Gas Systems	8	\$240.00	
	02212-05	Servicing of Fixtures, Valves, and Faucets	2	\$60.00	
Three	02301-06	Applied Math	7	\$210.00	\$110.00
	02302-06	Sizing Water Supply Piping	7	\$210.00	
	02303-06	Potable Water Supply Treatment	6	\$180.00	
	02304-06	Backflow Preventers	8	\$240.00	
	02305-06	Types of Venting	8	\$240.00	
	02306-06	Sizing DWV and Storm Systems	8	\$240.00	
	02307-06	Sewage Pumps and Sump Pumps	7	\$210.00	
	02308-06	Corrosive-Resistant Waste Piping	3	\$90.00	
02309-06	Compressed Air	4	\$120.00		
Four	02401-02	Business Math for Plumbers	4	\$120.00	\$110.00
	02402-02	Sizing DWV and Storm Systems	6	\$180.00	
	02403-02	Private Water Supply Systems	5	\$150.00	
	02404-02	Private Waste Disposal Systems	5	\$150.00	
	02405-02	Located Buried Water and Sewer Lines	5	\$150.00	
	02406-02	Hydronic and Solar Heating Systems	6	\$180.00	
	02407-02	Water Supply Treatment	10	\$300.00	
	02408-02	Swimming Pools and Hot Tubs	6	\$180.00	
	02409-02	Compressed Air	4	\$120.00	
	02410-02	Corrosive-Resistant Waste Piping	5	\$150.00	
02411-02	Plumbing for Mobile Homes and Mobile Home Parks	4	\$120.00		

HEATING VENTILATION & AIR CONDITIONING

Level	Module	Description	Units	Tuition	Text
One	03101-07	Introduction to HVAC	3	\$210.00	\$75.00
	03102-07	Trade Mathematics	4		
	03103-07	Copper & Plastic Piping Practices	2	\$210.00	
	03104-07	Soldering & Brazing	3		
	03105-07	Ferrous Metal Piping Practices	2		
	03106-07	Basic Electricity	5	\$150.00	
	03107-07	Introduction to Cooling	12	\$360.00	
	03108-07	Introduction to Heating	6	\$180.00	
	03109-07	Air Distribution Systems	4	\$120.00	
Two	03201-07	Commercial Airside Systems	5	\$210.00	\$110.00
	03202-07	Chimneys, Vents, & Fumes	2	\$180.00	
	03203-07	Introduction to Hydronic Systems	4		
	03204-07	Air Quality Equipment	2		
	03205-07	Leak Detection, Evacuation, Recovery, & Charging	8	\$240.00	
	03206-07	Alternating Current	3	\$150.00	
	03207-07	Basic Electronics	2		
	03208-07	Introduction to Control Circuit Troubleshooting	12	\$360.00	
	03209-07	Troubleshooting Gas Heating	5	\$150.00	
	03210-07	Troubleshooting Cooling	8	\$240.00	
	03211-07	Heat Pumps	8	\$240.00	
	03212-07	Basic Installation & Maintenance Practices	7	\$210.00	
	03213-07	Sheet Metal Duct Systems	2	\$120.00	
03214-07	Fiberglass & Flexible Duct Systems	2			
Three	03301-08	Refrigerants & Oils	4	\$390.00	\$110.00
	03302-08	Compressors	6		
	03303-08	Metering Devices	3	\$240.00	
	03304-08	Retail Refrigerant Systems	8		
	03305-08	Commercial Hydronic Systems	5	\$270.00	
	03306-08	Steam Systems	4	\$240.00	
	03307-08	Planned Maintenance	8		
	03308-08	Water Treatment	4	\$120.00	
	03309-08	Troubleshooting Electronic Controls	3	\$210.00	
	03310-08	Troubleshooting Oil Heating	4		
03311-08	Troubleshooting Heat Pumps	5	\$270.00		
03311-08	Troubleshooting Accessories	4			
Four	03401-03	Construction Drawings & Specifications	10	\$300.00	\$110.00
	03402-03	Indoor Air Quality	6	\$180.00	
	03403-03	Energy Conservation Equipment	4	\$120.00	
	03404-03	Building Management Systems	7	\$210.00	
	03405-03	Water Treatment	4	\$120.00	
	03406-03	System Startup & Shutdown	9	\$270.00	
	03407-03	Heating & Cooling System Designs	10	\$300.00	
	03408-03	Commercial & Industrial Refrigeration	9	\$270.00	

SHEET METAL

Level	Module	Description	Units	Tuition	Text
One	04101-01	Introduction to the Sheet Metal Trade	2	\$120.00	\$75.00
	04102-01	Tools of the Trade	2		
	04103-01	Fasteners, Hangers, and Supports	3	\$90.00	
	04104-01	Installation of Air Distribution Accessories	2	\$60.00	
	04105-01	Insulation	3	\$90.00	
	04106-01	Introduction to Sheet Metal Layout and Processes	3	\$90.00	
	04107-01	Trade Math One	5	\$150.00	
	04108-01	Fabrication One – Parallel Line Development	9	\$270.00	
Two	04201-02	Trade Math Two	8	\$240.00	\$110.00
	04202-02	Basic Piping Practices	3	\$90.00	
	04203-02	Fabrication Two – Radial Line Development	22	\$660.00	
	04204-02	Bend Allowances	2	\$60.00	
	04205-02	Blueprint and Specifications	8	\$240.00	
	04206-02	Air Properties and Distribution	6	\$180.00	
	04207-02	Sheet Metal Duct Fabrication Standards	3	\$90.00	
	04208-02	Soldering	6	\$180.00	
Three	04301-03	Trade Math Three: Field Measuring and Fitting	6	\$180.00	\$110.00
	04302-03	Air Systems	4	\$120.00	
	04303-03	Introduction to Welding, Brazing, and Cutting	8	\$240.00	
	04304-03	Principles of Refrigeration	3	\$90.00	
	04305-03	Principles of Airflow	9	\$270.00	
	04306-03	Comprehensive Blueprint and Specification Reading	12	\$360.00	
	04307-03	Fabrication Three: Triangulation	16	\$480.00	
Four	04401-03	Shop Production and Organization	10	\$300.00	\$110.00
	04402-03	Air Balance	10	\$300.00	
	04403-03	Louvers, Dampers, and Access Doors	8	\$240.00	
	04404-03	Fume and Exhaust System Design	10	\$300.00	
	04405-03	Fabrication Four: Comprehensive Review	16	\$480.00	
	04406-03	Introductory Skills for the Crew Leader	6	\$180.00	

PAINTING

Level	Module	Description	Units	Tuition	Text
One	07101	Careers in the Painting Trade	2		\$75.00
	07102	Safety	4	\$300.00	
	07103	Ladders, Scaffolds, Lifts, and Fall Protection	4		
	07104	Identifying Surface / Substrate Materials and Conditions	2	\$120.00	
	07105	Protecting Adjacent Surfaces	2		
	07106	Basic Surface Preparation	6	\$240.00	
	07107	Sealants and Repair / Fillers	2		
	07108	Introduction to Paint and Coatings	4	\$120.00	
	07109	Brushing and Rolling Paints and Coatings	6	\$180.00	
Two	07201	Painting Failures and Remedies	3	\$90.00	\$110.00
	07202	Job Planning and Completion	4	\$120.00	
	07203	Chemical Cleaning and Stripping	3	\$90.00	
	07204	Low-Pressure Water Cleaning	3	\$90.00	
	07205	Abrasive Blasting	3	\$90.00	
	07206	Drywall Finishing and Patching	10	\$300.00	
	07207	Stains	3	\$90.00	
	07208	Clear Finishes	3	\$90.00	
	07209	Wood Finishing	9	\$270.00	
	07210	Coatings Two	4	\$120.00	
	07211	Spray Painting	13	\$390.00	
Three	07301	Painting Failures and Remedies Two	3	\$90.00	\$110.00
	07302	Job Supervision, Planning and Control	6	\$180.00	
	07303	Coatings Three	6	\$180.00	
	07304	Coor and Tinting	4	\$120.00	
	07305	Decorative (Faux) Finishes	9	\$270.00	
	07306	Wallcovering	16	\$480.00	
	07307	Graphics	5	\$150.00	
	07308	Texturing	4	\$120.00	
	07309	Spraying with Special Devices	8	\$240.00	
Four	07401	Safety	4	\$120.00	\$110.00
	07402	Ladders, Scaffolds, Lifts, and Fall Protection	6	\$180.00	
	07403	Containment / Ventilation	3	\$90.00	
	07404	Surface Preparation One	6	\$180.00	
	07405	Surface Preparation Two	8	\$240.00	
	07406	Surface Preparation Three	3	\$90.00	
	07407	Industrial Coatings	4	\$120.00	
	07408	Coatings Applications and Equipment	10	\$300.00	
	07409	Quality Inspections	6	\$180.00	
	07410	Coatings Failures and Analysis	3	\$90.00	
	07411	Specialty Materials	3	\$90.00	

PIPEFITTING

Level	Module	Description	Units	Tuition	Text
One	08101-06	Orientation to the Trade	2	\$60.00	\$75.00
	08102-06	Pipefitting Hand Tools	8	\$240.00	
	08103-06	Pipefitting Power Tools	6	\$180.00	
	08104-06	Oxyfuel Cutting	7	\$210.00	
	08105-06	Ladders and Scaffolding	4	\$120.00	
	08106-06	Motorized Equipment	4	\$120.00	
Two	08201	Intermediate Excavations	4	\$120.00	\$110.00
	08202	Underground Pipe Installation	8	\$240.00	
	08203	Drawings and Detail Sheets	5	\$150.00	
	08204	Piping Systems	2	\$60.00	
	08205	Pipefitting Trade Math	6	\$180.00	
	08206	Socket Weld Pipe Fabrication	5	\$150.00	
	08207	Butt Weld Pipe Fabrication	18	\$540.00	
	08208	Rigging	7	\$210.00	
08209	Pipe Hangers and Supports	6	\$180.00		
Three	08301	Advanced Blueprint reading	6	\$180.00	\$110.00
	08302	Standards and Specifications	3	\$90.00	
	08303	Advanced Trade Math	8	\$240.00	
	08304	Motorized Equipment	6	\$180.00	
	08305	Introduction to Above-Ground Pipe Installation	8	\$240.00	
	08306	Identifying and Installing Valves	8	\$240.00	
	08307	Field Routing and Vessel Trim	6	\$180.00	
	08308	Spring Can Supports	4	\$120.00	
	08309	Testing Piping Systems and Equipment	8	\$240.00	
	08310	Basic Plumbing	5	\$150.00	
Four	08401	Planning Work Activities	3	\$90.00	\$110.00
	08402	Advanced Pipe Fabrication	20	\$600.00	
	08403	Performing NDE Testing	6	\$180.00	
	08404	Stress Relief and Aligning	4	\$120.00	
	08405	Steam Traps	4	\$120.00	
	08406	In-Line Specialties	4	\$120.00	
	08407	Special Piping	10	\$300.00	
	08408	Hot Taps	4	\$120.00	
	08409	Maintaining Valves	4	\$120.00	

INSTRUMENTATION

Level	Module	Description	Units	Tuition	Text
One	12101-01	Hand Tools for Instrumentation	5	\$150.00	\$75.00
	12102-01	Electrical Safety	5	\$150.00	
	12103-01	Power Tools for Instrumentation	4	\$120.00	
	12104-01	Electrical Systems for Instrumentation	9	\$270.00	
	12105-01	Metallurgy for Instrumentation	3	\$90.00	
	12106-01	Fasteners	3	\$90.00	
	12107-01	Instrumentation Drawings and Documents, Part One	4	\$120.00	
	12108-01	Gaskets and Packing	3	\$90.00	
	12109-01	Lubricants, Sealants, and Cleaners	3	\$90.00	
	12110-01	Flow, Pressures, Level, and Temperature	4	\$120.00	
	12111-01	Tubing	5	\$150.00	
	12112-01	Piping – 2" and Under	4	\$120.00	
	12113-01	Hoses	3	\$90.00	
Two	12201-03	Craft-Related Mathematics	6	\$180.00	\$110.00
	12202-03	Instrumentation Drawings and Documents, Part One	8	\$240.00	
	12203-03	Principles of Welding for Instrumentation	4	\$120.00	
	12204-03	Process Theory Control	8	\$240.00	
	12205-03	Detectors, Secondary Elements, Transducers, and Transmitters	8	\$240.00	
	12206-03	Controllers, Recorders, and Indicators	4	\$120.00	
	12207-03	Control Valves, Actuators, and Positioners	6	\$180.00	
	12208-03	Relays and Timers	3	\$90.00	
	12209-03	Switches and Photoelectric Devices	2	\$60.00	
	12210-03	Filters, Regulators, and Dryers	3	\$90.00	
	12211-03	Analyzers and Monitors	2	\$60.00	
	12212-03	Panel-Mounted Instruments	3	\$90.00	
	12213-03	Installing Field-Mounted Instruments	10	\$300.00	
	12214-03	Raceways for Instrumentation	7	\$210.00	
Three	12301-03	Instrument Fitter's Math	8	\$240.00	\$110.00
	12302-03	Layout and Installation of Tubing and Piping Systems	18	\$540.00	
	12303-03	Clean, Purge, and Test Tubing and Piping Systems	4	\$150.00	
	12304-03	Receive, Inspect, Handle, and Store Instrumentation	1	\$150.00	
	12305-03	Instrumentation Electrical Circuitry	10	\$300.00	
	12306-03	Grounding and Shielding of Instrumentation Wiring	4	\$120.00	
	12307-03	Terminating Conductors	8	\$240.00	
	12308-03	Protective Measures for Instrumentation	8	\$240.00	
Four	12401-03	Digital Logic Circuits	4	\$120.00	\$110.00
	12402-03	Instrument Calibration and Configuration	26	\$780.00	
	12403-03	Performing Loop Checks	3	\$90.00	
	12404-03	Troubleshooting and Commissioning a Loop	4	\$120.00	
	12405-03	Tuning Loops	6	\$180.00	
	12406-03	Programmable Logic Controllers	4	\$120.00	
	12407-03	Distributed Control Systems	4	\$120.00	
	12408-03	Analyzers	8	\$240.00	

MILLWRIGHT

Level	Module	Description	Units	Tuition	Text
One	15101-06	Millwright Hand Tools	8	\$240.00	\$75.00
	15102-06	Fasteners	4	\$120.00	
	15103-06	Basic Layout	6	\$180.00	
	15104-06	Cutting and Fitting Gaskets	4	\$120.00	
	15105-06	Oxyfuel Cutting	7	\$210.00	
Two	15201	Intermediate Trade Math	8	\$240.00	\$110.00
	15202	Field Sketching	4	\$120.00	
	15203	Intermediate Blueprint Reading	12	\$360.00	
	15204	Specialty Tools	4	\$120.00	
	15205	Millwright Power Tools	8	\$240.00	
	15206	Complex and Heavy Rigging	4	\$120.00	
	15207	Light Lifting Devices	4	\$120.00	
	15208	Lubrication	8	\$240.00	
15211	Introduction to Bearings	6	\$180.00		
Three	15301	Advanced Trade Math	8	\$240.00	\$110.00
	15302	Precision Measuring Tools	10	\$300.00	
	15303	Installing Couplings	6	\$180.00	
	15304	Prealignment for Drilling and Tapping	10	\$300.00	
	15305	Fabricating Shims	2	\$60.00	
	15306	Installing Packing	4	\$120.00	
	15307	Installing Mechanical Seals	8	\$240.00	
	15308	Alignment Fixtures and Specialty Jigs	4	\$120.00	
	15309	Installing Belt and Chain Drives	4	\$120.00	
	15310	Installing Fans and Blowers	4	\$120.00	
	15311	Installing Bearings	8	\$240.00	
	15312	Installing Seals	2	\$60.00	
Four	15401	Conveyors	2	\$60.00	\$110.00
	15402	Basic Hydraulic Systems	4	\$120.00	
	15403	Basic Pneumatic Systems	6	\$180.00	
	15404	Troubleshooting and Repairing Compressors	8	\$240.00	
	15405	Vibration Analysis	2	\$60.00	
	15406	Setting Baseplates and Soleplates	6	\$180.00	
	15407	Conventional Alignment	12	\$360.00	
	15408	Pumps	8	\$240.00	
	15409	Troubleshooting and Repairing Pumps	4	\$120.00	
	15410	Troubleshooting and Repairing Hydraulic Equipment	4	\$120.00	
	15411	Troubleshooting and Repairing Gearboxes	8	\$240.00	
	15412	Troubleshooting and Repairing Conveyors	6	\$180.00	
Five	15501	Advanced Blueprint Reading	10	\$300.00	\$110.00
	15502	Troubleshooting and Repairing Pneumatic Systems	4	\$120.00	
	15503	Turbines	8	\$240.00	
	15504	Troubleshooting and Repairing Turbine Equipment	6	\$180.00	
	15505	AC/DC Motor Operation	4	\$120.00	
	15506	Prevention and Predictive Maintenance	4	\$120.00	
	15507	Performing Reverse Alignment	12	\$360.00	
	15508	Performing Optical Alignment	10	\$300.00	
	15509	Performing Laser Alignment	10	\$300.00	

SPRINKLER FITTING

Level	Module	Description	Units	Tuition	Text
One	18101	Introduction to the Trade	2	\$180.00	\$75.00
	18102	Hangers, Supports, Restraints, and Guides	4		
	18103	Threaded Steel Pipe	5	\$300.00	
	18104	Flanged, Grooved, and Plain-Ended Fittings	5		
	18105	Plastic Pipe	3	\$180.00	
	18106	Copper Tube Systems	3		
	18107	Underground Pipe	4	\$120.00	
Two	18201	Introduction to Sprinklers	3	\$90.00	\$110.00
	18202	Standard Sprinklers	7	\$210.00	
	18203	Special Sprinklers and Nozzles	8	\$240.00	
	18204	General Purpose Valves	5	\$150.00	
	18205	Wet Fire Sprinkler Systems	12	\$360.00	
	18206	Dry-Pipe Systems	15	\$450.00	
Three	18301	General Trade Math	11	\$330.00	\$110.00
	18302	Construction and Plans	11	\$330.00	
	18303	Water Supplies	5	\$150.00	
	18304	Standpipes	8	\$240.00	
	18305	Preaction / Deluge Systems	13	\$390.00	
Four	18401	Fire Pumps	12	\$360.00	\$110.00
	18402	Special Extinguishing Systems	14	\$420.00	
	18403	System Design	12	\$360.00	
	18404	Inspection and Maintenance	5	\$150.00	
	18405	Foremanship	5	\$150.00	

INSULATING

Level	Module	Description	Units	Tuition	Text	
One	19101	Orientation	2	\$150.00	\$75.00	
	19102	Trade Relations	3			
	19103	Tools of the Trade	3	\$180.00		
	19104	Material Handling, Storage, and Distribution	1			
	19105	Characteristics of Pipe Insulation	2			
	19106	Installing Fiberglass Pipe Insulation	12	\$360.00		
	19107	Installing Pipe Fittings, Valves, and Flanges	16	\$480.00		
Two	19201	Installing Flexible Foam Insulation	13	\$390.00	\$110.00	
	19202	Installing Blanket Insulation for Ducts	3	\$90.00		
	19203	Installing Board Insulation for Ducts	8	\$240.00		
	19204	Installing Calcium Silicate/Expanded Perlite Pipe Insulation	6	\$180.00		
	19205	Installing Mineral Wool Insulation	5	\$150.00		
	19206	Installing Rigid Foam Insulation	8	\$240.00		
	19207	Installing Board and Block Insulation	7	\$210.00		
	19208	Cement and Fabric Finishes & Mastics	4	\$120.00		
	19209	Plumbing Systems	3	\$90.00		
	19210	Chilled and Hot Water Systems	2	\$60.00		
Three	19301	Trade Math	3	\$90.00	\$110.00	
	19302	Air Duct Systems	2	\$120.00		
	19303	Theory of Heat Transfer and Moisture Effects	1			
	19304	Adhesives and Their Uses	1			
	19305	Steam, Condensate, and Process Water Systems	2	\$180.00		
	19306	Large Boilers, Breeches, Precipitators, and Apparatus	4			
	19307	Refrigeration and Cryogenic Systems	1	\$90.00		
	19308	Specialized Insulation Systems	2	\$150.00		
	19309	Blueprints and Specifications	5			
	19310	Jacketing Fabrication – Piping and Fittings	17			\$510.00
	19311	Jacketing Fabrication – Vessels and Equipment	16			\$480.00
	19312	Sheet Metal Lagging	5			\$150.00

MOBILE CRANE OPERATIONS

Level	Module	Description	Units	Tuition	Text
One	21101-04	Orientation to the Trade	2	\$240.00	\$75.00
	21102-04	Basic Principals of Cranes	6		
	21103-04	Rigging Practices	6	\$180.00	
	21104-04	Crane Safety	6	\$180.00	
	21105-04	Operating a Crane	10	\$300.00	
Two	21201-04	Communication	4	\$120.00	\$110.00
	21202-04	Machine Power Flow	11	\$330.00	
	21203-04	Preventive Maintenance	9	\$270.00	
	21204-04	Wire Rope	10	\$300.00	
	21205-04	Computer Aids / Operator Aids	10	\$300.00	
	21206-04	Load Dynamics	6	\$180.00	
	21207-04	On-Site Equipment Movement	10	\$300.00	
Three	21301-04	Load Charts	10	\$300.00	\$110.00
	21302-04	Telescopic Boom Attachment Assembly and Disassembly	8	\$240.00	
	21303-04	Advanced Operational Techniques	8	\$240.00	
	21304-04	Lift Planning	8	\$240.00	
	21305-04	Hoisting Personnel	8	\$240.00	
	21306-04	Lattice Boom Assembly and Disassembly	10	\$300.00	
	21307-04	Emergency Procedures	6	\$180.00	
	21308-04	Transporting Requirements	4	\$120.00	

HEAVY EQUIPMENT OPERATIONS

Level	Module	Description	Units	Tuition	Text
One	22101-05	Orientation to the Trade	2		\$75.00
	22102-05	Heavy Equipment Safety	4	\$240.00	
	22103-05	Identification of Heavy Equipment	2		
	22104-05	Basic Operations Techniques	10	\$300.00	
	22105-05	Tractors	7	\$210.00	
	22106-05	Grades, Part One	6	\$180.00	
Two	22201-06	Introduction to Earth Moving	5	\$150.00	\$110.00
	22202-06	Dump Trucks	9	\$270.00	
	22203-06	Rollers	6	\$180.00	
	22204-06	Scrapers	7	\$210.00	
	22205-06	Loaders	7	\$210.00	
	22206-06	Forklifts	7	\$210.00	
	22207-06	Excavation Math	10	\$300.00	
	22208-06	Grades, Part Two	8	\$240.00	
22209-06	Civil Blueprint Reading	8	\$240.00		
Three	22301	Finish Operator	10	\$300.00	\$110.00
	22302	Advanced Safety	7	\$210.00	
	22303	Telescoping Excavators	8	\$240.00	
	22304	Motor Graders	10	\$300.00	
	22305	Excavators	10	\$300.00	
	22306	Finishing and Grading	8	\$240.00	
	22306	Soils, Part Three	7	\$210.00	

CONCRETE FINISHING

Level	Module	Description	Units	Tuition	Text
One	23101	Introduction to Concrete Construction and Finishing	4	\$180.00	\$75.00
	23102	Safety Requirements	2		
	23103	Properties of Concrete	4	\$210.00	
	23104	Tools and Equipment	3		
	23105	Preparing for Placement	5	\$150.00	
	23106	Placing Concrete	5	\$150.00	
	23107	Finishing, Part One	8	\$240.00	
	23108	Curing and Protecting Concrete	2	\$120.00	
	23109	Introduction to Troubleshooting	2		
Two	23201	Properties of Concrete, Part Two	3	\$210.00	\$110.00
	23202	Estimating Concrete Quantities	4		
	23203	Forming	8	\$240.00	
	23204	Site Concrete	12	\$360.00	
	23205	Architectural Finishes	8	\$240.00	
	23206	Industrial Floors	9	\$270.00	
	23207	Superflat Floors	9	\$270.00	
	23208	Surface Treatments	5	\$150.00	
	23209	Quality Controls	4	\$120.00	
	23210	Making Repairs	4	\$120.00	

ELECTRICAL

Level	Module	Description	Units	Tuition	Text
One	26101-08	Orientation to the Trade	1		\$75.00
	26102-08	Electrical Safety	4	\$240.00	
	26103-08	Introduction to Electrical Circuits	3		
	26104-08	Electrical Theory	3	\$180.00	
	26105-08	Introduction to the National Electrical Code	3		
	26106-08	Device Boxes	4	\$240.00	
	26107-08	Hand Bending	4		
	26108-08	Raceways & Fittings	8	\$240.00	
	26109-08	Conductors & Cables	4	\$210.00	
	26110-08	Basic Electrical Construction Drawings	3		
	26111-08	Residential Electrical Services	6	\$240.00	
	26112-08	Electrical Test Equipment	2		
Two	26201-08	Alternating Current	7	\$210.00	\$110.00
	26202-08	Motors: Theory & Application	8	\$240.00	
	26203-08	Electrical Lighting	6	\$180.00	
	26204-08	Conduit Bending	6	\$180.00	
	26205-08	Pull & Junction Boxes	5	\$150.00	
	26206-08	Conductor Installations	4		
	26207-08	Cable Tray	3	\$300.00	
	26208-08	Conductor Terminations & Splices	3		
	26209-08	Grounding & Bonding	6	\$180.00	
	26210-08	Circuit Breakers & Fuses	5	\$150.00	
	26211-08	Control Systems & Fundamental Concepts	5	\$150.00	
Three	26301-05	Load Calculations – Branch Feeders & Circuits	5	\$150.00	\$110.00
	26302-05	Conductor Selection & Calculations	6	\$180.00	
	26303-05	Overcurrent Protection	5	\$150.00	
	26304-05	Raceway, Box, & Fitting Fill Requirements	5	\$150.00	
	26305-05	Wiring Devices	4	\$120.00	
	26306-05	Distribution Equipment	5	\$150.00	
	26307-05	Distribution System Transformers	6	\$240.00	
	26308-05	Lamps, Ballasts, & Components	2		
	26309-05	Motor Calculations	5	\$150.00	
	26310-05	Motor Maintenance, Part One	5	\$150.00	
	26311-05	Motor Controls	8	\$240.00	
	26312-05	Hazardous Locations	6	\$180.00	
Four	26401-05	Load Calculations – Feeders & Services	6	\$180.00	\$110.00
	26402-05	Practical Applications of Lighting	4	\$120.00	
	26403-05	Standby & Emergency Systems	5	\$150.00	
	26404-05	Basic Electronic Theory	8	\$240.00	
	26405-05	Fire Alarm Systems	6	\$180.00	
	26406-05	Specialty Transformers	6	\$180.00	
	26407-05	Advanced Motors Controls	8	\$240.00	
	26408-05	HVAC Controls	6	\$180.00	
	26409-05	Heat Tracing & Freeze Protection	4	\$120.00	
	26410-05	Motor Maintenance, Part Two	5	\$150.00	
	26411-05	High-Voltage Terminations/Splices	4	\$120.00	

CARPENTRY

Level	Module	Description	Units	Tuition	Text
One	27101-06	Orientation to the Trade	1	\$120.00	\$75.00
	27102-06	Building Materials, Fasteners, & Adhesives	3		
	27103-06	Hand and Power Tools	4	\$120.00	
	27104-06	Reading Plans & Elevations	8	\$240.00	
	27105-06	Floor Systems	10	\$300.00	
	27106-06	Wall and Ceiling Framing	8	\$240.00	
	27107-06	Roof Framing	15	\$450.00	
	27108-06	Introduction to Concrete & Reinforcing Materials	2	\$360.00	
	27109-06	Windows and Exterior Doors	5		
	27110-06	Basic Stair Layout	5		
Two	27201-07	Commercial Drawings	10	\$300.00	\$110.00
	27202-07	Roofing Applications	10	\$300.00	
	27203-07	Thermal and Moisture Protection	3	\$510.00	
	27204-07	Exterior Finishing	14		
	27205-07	Cold-Formed Steel Framing	6	\$180.00	
	27206-07	Drywall Installation	6	\$330.00	
	27207-07	Drywall Finishing	5		
	27208-07	Doors & Door Hardware	8	\$240.00	
	27209-07	Suspended Ceilings	6	\$180.00	
	27210-07	Window, Door, Floor, & Ceiling Trim	10	\$300.00	
27211-07	Cabinet Installation	4	\$240.00		
27212-07	Cabinet Fabrication	4			
Three	27301-08	Rigging Equipment	4	\$300.00	\$110.00
	27302-08	Rigging Practices	6		
	27303-08	Properties of Concrete	4	\$300.00	
	27304-08	Reinforcing Concrete	6		
	27305-08	Handling & Placing Concrete	9	\$270.00	
	27306-08	Trenching & Excavating	4	\$120.00	
	27307-08	Foundations and Slab-on-grade	8	\$240.00	
	27308-08	Vertical Formwork	11	\$330.00	
27309-08	Horizontal Formwork	9	\$270.00		
27310-08	Tilt-up Wall Panels	8	\$240.00		
Four	27401-03	Site Layout Two: Angular Measurement	12	\$360.00	\$110.00
	27402-03	Advanced Roof Systems	8	\$240.00	
	27403-03	Advanced Floor Systems	8	\$240.00	
	27404-03	Advanced Wall Systems	10	\$300.00	
	27405-03	Advanced Stair Systems	10	\$300.00	
	27406-03	Introduction to Light Equipment	4	\$120.00	
	27407-03	Welding	6	\$180.00	
	27408-03	Metal Buildings	6	\$180.00	
27409-03	Introductory Skills for the Crew Leader	6	\$180.00		

MASONRY

Level	Module	Description	Units	Tuition	Text
One	28101-04	Introduction to Masonry	8	\$240.00	\$75.00
	28102-04	Masonry Tools & Equipment	5	\$150.00	
	28103-04	Measurements, Drawings, & Specifications	4	\$120.00	
	28104-04	Mortar	4	\$120.00	
	28105-04	Masonry Units & Installation	24	\$720.00	
Two	28201-05	Residential Plans & Drawing Interpretation	5	\$150.00	\$110.00
	28202-05	Residential Masonry	10	\$300.00	
	28203-05	Grout & Other Reinforcement	6	\$180.00	
	28204-05	Metal Work in Masonry	6	\$180.00	
	28205-05	Advanced Laying Techniques	20	\$600.00	
	28206-05	Construction Techniques & Moisture Control	8	\$240.00	
	28207-05	Construction Inspection & Quality Control	6	\$180.00	
Three	28301-05	Masonry in High-Rise Construction	7	\$210.00	\$110.00
	28302-05	Specialty Materials & Techniques	24	\$720.00	
	28303-05	Repair & Restoration	6	\$180.00	
	28304-05	Commercial Drawings	5	\$150.00	
	28305-05	Estimating	10	\$300.00	
	28306-05	Site Layout Distance Measuring & Leveling	9	\$270.00	
	28307-05	Introductory Skills For the Crew Leader	6	\$180.00	

WELDING

Level	Module	Description	Units	Tuition	Text
One	29101-03	Welding Safety	1	\$240.00	\$75.00
	29102-03	Oxyfuel Cutting	7		
	29103-03	Base Metal Preparation	5	\$150.00	
	29104-03	Weld Quality	4	\$120.00	
	29105-03	SMAW – Equipment and Setup	2	\$90.00	
	29106-03	SMAW – Electrodes and Selection	1		
	29107-03	SMAW – Beads and Fillet Welds	48	\$1,440.00	
	29108-03	SMAW – Groove Welds with Backing	4	\$120.00	
	29109-03	Joint Fit-Up and Alignment	2	\$60.00	
	29110-03	SMAW – Open V-Groove Welds	48	\$1,440.00	
	29111-03	SMAW – Open-Root Pipe Welds	40	\$1,200.00	
Two	29201-03	Welding Symbols	2	\$210.00	\$110.00
	29202-03	Reading Welding Detail Drawings	5		
	29203-03	SMAW – Stainless Steel Groove and Pipe Welds	32	\$960.00	
	29204-03	Air Carbon Arc Cutting and Gouging	5	\$150.00	
	29205-03	Plasma Arc Cutting (PAC)	3	\$90.00	
	29206-03	GMAW and FCAW – Equipment and Filler Materials	4	\$120.00	
	29207-03	GMAW and FCAW – Plate	32	\$960.00	
	29208-03	GTAW – Equipment and Filler Materials	4	\$120.00	
	29209-03	GTAW – Plate	16	\$480.00	
Three	29301-03	Preheating and Postweld Heat Treatment of Metals	2	\$150.00	\$110.00
	29301-03	Physical Characteristics and Mechanical Properties of Metals	3		
	29301-03	GMAW – Pipe	24	\$720.00	
	29301-03	FCAW – Pipe	24	\$720.00	
	29301-03	GTAW – Carbon Steel Pipe	24	\$720.00	
29301-03	GTAW – Low-Alloy and Stainless Steel Pipe	28	\$840.00		

IRONWORKING

Level	Module	Description	Units	Tuition	Text
One	30101	Introduction to the Trade	2		\$75.00
	30102	Trade Safety	3	\$240.00	
	30103	Means and Methods of Access	3		
	30104	Tools and Equipment of the Trade	4	\$120.00	
	30105	Construction Cranes One	4	\$120.00	
	30106	Rigging for Ironwork One	4	\$120.00	
	30107	Rigging Equipment and Hardware	3	\$90.00	
	30108	Trade Blueprints and Processes	5	\$150.00	
	30109	Materials Handling and Storage	2	\$150.00	
	30110	Structural Ironworking One	3		
	30111	Plumbing, Aligning, and Guying	2	\$120.00	
	30112	Fastening	2		
	30113	Oxyfuel Cutting	7	\$210.00	
	30114	Introduction to Arc Welding	6	\$180.00	
	30115	Steel Joists and Joist Girders One	2	\$180.00	
	30116	Metal Decking	4		
	30117	Field Fabrication One	6	\$180.00	
Two	30201	Position Arc Welding	8	\$240.00	\$110.00
	30202	Introduction to Reinforcing Steel and Steel Fabrication	4	\$120.00	
	30203	Miscellaneous Ironworking	3	\$90.00	
	30204	Trade Math	4	\$120.00	
	30205	Blueprint Reading Two	4	\$120.00	
	30206	Rigging Two	4	\$120.00	
	30207	Structural Ironworking Two	12	\$360.00	
	30208	Steel Joists and Joist Girders Two	6	\$180.00	
	30209	Construction Cranes Two	6	\$180.00	
	30210	Levels, Transits, and Electronic Survey Devices	7	\$210.00	
Three	30301	Weld Testing	4	\$120.00	\$110.00
	30302	Pre-Engineered Systems	3	\$90.00	
	30303	Ornamental Ironworking	2		
	30304	Stud Welding	4	\$240.00	
	30305	Post-Tensioning	2		
	30306	Placing and Tying Reinforcing Steel	8	\$240.00	
	30307	Construction Cranes Three	4	\$120.00	
	30308	Special Rigging	4	\$120.00	
	30309	Field Fabrication Two	10	\$300.00	
	30310	Demolition	4	\$120.00	
	30311	Precast/Tilt-up Erection	8	\$240.00	
	30312	Structural Ironworking Three	8	\$240.00	

MAINTENANCE INDUSTRIAL

Level	Module	Description	Units	Tuition	Text
One	32101	Electrical Safety	5	\$150.00	\$75.00
	32102	Hand Bending	3	\$90.00	
	32103	Fasteners and Anchors	2	\$60.00	
	32104	Electrical Theory One	3	\$180.00	
	32105	Electrical Theory Two	3		
	32106	Electrical Test Equipment	3	\$120.00	
	32107	Introduction to the NEC	1		
	32108	Conductors	6	\$180.00	
	32109	Introduction to Electrical Blueprints	3	\$90.00	
	32110	Oxyfuel Cutting	7	\$210.00	
Two	32201	Wiring: Commercial and Industrial	3	\$90.00	\$110.00
	32202	Alternating Current	6	\$180.00	
	32203	Motors: Theory and Application	8	\$240.00	
	32204	Grounding	5	\$150.00	
	32205	Boxes and Fittings	4	\$120.00	
	32206	Cable Tray	6	\$180.00	
	32207	Conductor Terminations and Splices	3	\$90.00	
	32208	Installation of Electrical Services	6	\$180.00	
	32209	Circuit Breakers and Fuses	5	\$150.00	
	32210	Contactors and Relays	4	\$120.00	
	32211	Lubrication	8	\$240.00	
	32212	Introduction to Bearings	6	\$180.00	
	32213	Copper and Plastic Piping Practices	2	\$180.00	
	32214	Ferrous Metal Piping Practices	2		
	32215	Piping Systems	2		
32216	SMAW – Equipment and Setup	2	\$60.00		
Three	32301	Overcurrent Protection	5	\$150.00	\$110.00
	32302	Distribution Equipment	5	\$150.00	
	32303	Motor Controls	8	\$240.00	
	32304	Motor Maintenance, Part One	5	\$150.00	
	32305	Motor Maintenance, Part Two	5	\$150.00	
	32306	Installation Couplings	6	\$180.00	
	32307	Installing Mechanical Seals	8	\$240.00	
	32308	Installing Belt and Chain Drives	4	\$120.00	
	32309	Installing Bearings	8	\$240.00	
	32310	Gaskets and Packing	3	\$150.00	
	32311	Installing Seals	2		
	32312	Pumps	8	\$240.00	
	32313	Basic Hydraulic Systems	4	\$120.00	
	32314	Basic Pneumatic Systems	6	\$180.00	
	32315	Basic Electrical Theory	8	\$240.00	

Four	32401	Practical Applications of Lighting	4	\$120.00	\$110.00
	32402	Standby and Emergency Systems	5	\$150.00	
	32403	Advanced Controls	8	\$240.00	
	32404	Commercial and Industrial Refrigeration	9	\$270.00	
	32405	Electricity in HVAC Systems	8	\$240.00	
	32406	HVAC Controls	6	\$180.00	
	32407	Conventional Alignment	12	\$360.00	
	32408	Maintaining Valves	4	\$120.00	
	32409	Identifying and Installing Valves	8	\$240.00	
	32410	Steam Traps	4	\$300.00	
	32411	Steam Systems	6	\$180.00	
	32412	Programmable Logic Controllers	3	\$90.00	
	32413	High-Voltage Terminations / Splices	4	\$120.00	
	32414	Vibration Analysis	2	\$60.00	
	32415	Commercial Heating and Cooling Systems	6	\$180.00	
Five	32501	Preventive and Predictive Maintenance	4	\$120.00	\$110.00
	32502	Performing Reverse Alignment	12	\$360.00	
	32503	Performing Laser Alignment	10	\$300.00	
	32504	Troubleshooting and Repairing Pneumatic Equipment	4	\$120.00	
	32505	Troubleshooting and Repairing Pumps	4	\$120.00	
	32506	Troubleshooting and Repairing Hydraulic Equipment	4	\$120.00	
	32507	Troubleshooting and Repairing Gearboxes	8	\$240.00	
	32508	Programmable Logic Controllers	12	\$360.00	
	32509	Instrument Drawings and Documents	4	\$120.00	
	32510	Flow, Pressure, Level, and Temperature	4	\$120.00	
	32511	Process Control Theory	7	\$210.00	
	32512	Precision Measuring Tools	10	\$300.00	

ELECTRONIC SYSTEMS TECHNICIAN

Level	Module	Description	Units	Tuition	Text
One	33101-04	Introduction to the Trade	4	\$120.00	\$75.00
	33102-04	Construction Materials and Methods	7	\$210.00	
	33103-04	Pathways and Spaces	6	\$180.00	
	33104-04	Fasteners and Anchors	2	\$60.00	
	33105-04	Job-Site Safety	5	\$150.00	
	33106-04	Craft-Related Mathematics	4	\$120.00	
	33107-04	Hand Bending of Conduit	3	\$90.00	
	33108-04	Low-Voltage Cabling	8	\$240.00	
Two	33102-05	DC Circuits	5	\$150.00	\$110.00
	33202-05	AC Circuits	6	\$180.00	
	33203-05	Semiconductors and Integrated Circuits	4	\$120.00	
	33204-05	Basic Test Equipment	4	\$120.00	
	33205-05	Power Quality and Grounding	8	\$240.00	
	33206-05	Introduction to Electrical Blueprints	3	\$90.00	
	33207-05	Switching Devices and Timers	5	\$150.00	
	33208-05	Wire and Cable Terminations	8	\$240.00	
	33209-05	Introduction to Codes and Standards	4	\$120.00	
	33210-05	Computer Applications	8	\$240.00	
33211-05	Advanced Test Equipment	8	\$240.00		
Three	33301-04	Cable Selection	6	\$180.00	\$110.00
	33302-04	Buses and Networks	10	\$300.00	
	33303-04	Fiber Optics	8	\$240.00	
	33304-04	Video Systems	6	\$180.00	
	33305-04	Wireless Communications	6	\$180.00	
	33306-04	Site Survey, Project Planning, and Documentation	6	\$180.00	
	33307-04	Maintenance and Repair	6	\$180.00	
	33308-04	Introductory Skills for the Crew Leader	6	\$180.00	
	33309-04	Rack Systems	6	\$180.00	
Four	33401-03	Fire Alarm Systems	16	\$480.00	\$110.00
	33402-03	Intrusion Detection Systems	12	\$360.00	
	33403-03	Audio Systems	16	\$480.00	
	33404-03	Overview of Nurse Call and Signaling Systems	4	\$120.00	
	33405-03	CCTV Systems	8	\$240.00	
	33406-03	Broadband Systems	6	\$180.00	
	33407-03	Access Control Systems	12	\$360.00	
	33408-03	Systems Integration	8	\$240.00	
	33409-03	System Commissioning and User Training	4	\$120.00	
	33410-03	Media Management Systems	4	\$120.00	
33411-06	Telecommunications Systems	4	\$120.00		

FIELD SAFETY

Level	Module	Description	Units	Tuition	Text
V1	75101-03	Introduction to Safety	1	\$120.00	\$110.00
	75102-03	Hazard Communication	1		
	75103-03	Personal Protective Equipment	1		
	75104-03	Work-Zone Safety	1		
V2	75105-03	Electrical & High-Voltage Hazards	1	\$120.00	
	75106-03	Fire Protection & Prevention	1		
	75107-03	Hand- & Power-Tool Safety	1		
	75108-03	Welding Safety	1		
V3	75109-03	Fall Protection	1	\$120.00	
	75110-03	Steel Erection	1		
	75111-03	Walking & Work Surfaces	1		
	75112-03	Ladders & Scaffolding	1		
V4	75113-03	Horizontal Directional Drilling Hazards	1	\$120.00	
	75114-03	Heavy-Equipment, Crane, & Rigging Safety	1		
	75115-03	Trenching Safety	1		
	75116-03	Forklift Safety	1		
V5	75117-03	Lockout/Tagout	1	\$90.00	
	75118-03	Confined Spaces	1		
	75119-03	Concrete & Masonry	1		

SAFETY TECHNOLOGY

Level	Module	Description	Units	Tuition	Text
V1	75201-03	Introduction to Safety Technology	1	\$120.00	\$110.00
	75202-03	Hazard Recognition, Evaluation, & Control	1		
	75203-03	Risk Analysis & Assessment	1		
	75204-03	Inspections, Audits, & Observations	1		
V2	75205-03	Employee Motivation	1	\$120.00	
	75206-03	Site-Specific ES&H Plans	1		
	75207-03	Emergency Action Plans	1		
	75208-03	JSAs & TSAs	1		
V3	75209-03	Safety Orientation & Training	1	\$120.00	
	75210-03	Work Permit Policies	1		
	75211-03	Confined-Space Entry Procedures	1		
	75212-03	Safety Meetings	1		
V4	75213-03	Accident Investigation: Policies & Procedures	1	\$90.00	
	75214-03	Accident Investigation: Data Analysis	1		
	75215-03	Recordkeeping	1		
V5	75216-03	OSHA Inspection Procedures	1	\$90.00	
	75217-03	ES&H Data Tracking & Trending	1		
	75218-03	Environmental Awareness	1		

PROJECT SUPERVISION

Module	Description	Units	Tuition	Text
MT201-01	Orientation to the Job	1	\$360.00	\$120.00
MT202-01	Human Relations & Problem Solving	8		
MT203-01	Safety	3		
MT204-01	Quality Control	2	\$240.00	
MT205-01	Contract & Construction Documents	2		
MT206-01	Document Control & Estimating	4	\$390.00	
MT207-01	Planning & Scheduling	7		
MT208-01	Resource Control & Cost Awareness	6		

PROJECT MANAGEMENT

Module	Description	Units	Tuition	Text
44101-08	Introduction to Project Management	1	\$360.00	\$120.00
44102-08	Safety	6		
44103-08	Interpersonal Skills	5		
44104-08	Issues & Resolutions	6	\$420.00	
44105-08	Construction Documents	4		
44106-08	Construction Planning	4	\$360.00	
44107-08	Estimating & Cost Control	6		
44108-08	Scheduling	6		
44109-08	Resource Control	4	\$330.00	
44110-08	Quality Control	5		
44111-08	Continuous Improvement	2		