



TRADES ACADEMY

Building Skills For A Lifetime

Heating Ventilation & Air Conditioning (HVAC)

Core Curriculum (2015):

Basic Safety * Introduction to Construction Math * Introduction to Hand Tools * Introduction to Power Tools * Introduction to Construction Drawings * Basic Rigging * Basic Communication Skills * Basic Employability Skills * Introduction to Materials Handling

Core Curriculum: **85 hours** **Core Tuition:** **\$1,360.00** **Core Textbook:** **\$95.00**

HVAC Level 1 (2013):

Introduction to HVAC * Trade Mathematics * Basic Electricity * Introduction to Heating * Introduction to Cooling * Introduction to Air Distribution Systems * Basic Copper & Plastic Piping Practices * Soldering & Brazing * Basic Carbon Steel Piping Practices

HVAC Level 1: **120 hours** **Level 1 Tuition:** **\$1,920.00** **Level 1 Textbook:** **\$95.00**

HVAC Level 2 (2013):

Alternating Current * Compressors * Refrigerants & Oils * Leak Detection, Evacuation, Recovery & Charging * Metering Devices * Heat Pumps * Basic Maintenance * Chimneys, Vents & Flues * Sheet Metal Duct Systems * Fiberglass & Fabric Duct Systems * Commercial Airside Systems * Air Quality Equipment * Introduction to Hydronic Systems

HVAC Level 2: **170 hours** **Level 2 Tuition:** **\$2,720.00** **Level 2 Textbook:** **\$135.00**

HVAC Level 3 (2013):

Fasteners, Hardware, & Wiring Terminations * Control Circuit & Motor Troubleshooting * Troubleshooting Cooling * Troubleshooting Heat Pumps * Troubleshooting Gas Heating * Troubleshooting Oil Heating * Troubleshooting Accessories * Zoning, Ductless, & Variable Refrigerant Flow Systems * Commercial Hydronic Systems * Steam Systems * Retail Refrigerant Systems * Customer Relations

HVAC Level 3: **162.5 hours** **Level 3 Tuition:** **\$2,600.00** **Level 3 Textbook:** **\$135.00**

HVAC Level 4 (2013):

Water Treatment * Indoor Air Quality * Energy Conservation Equipment * Building Management Systems * System Air Balancing * System Startup & Shutdown * Construction Drawings & Specifications * Heating & Cooling System Designs * Commercial & Industrial Refrigeration Systems * Alternative & Specialized Heating & Cooling Systems * Fundamentals of Crew Leadership

HVAC Level 4: **160 hours** **Level 4 Tuition:** **\$2,560.00** **Level 4 Textbook:** **\$135.00**

Total HVAC Program: **697.5 hours** **Total Program Tuition:** **\$11,160.00** **Total Textbook Cost:** **\$595.00**



Accredited Training Unit

GCA TRADES ACADEMY OFFICE:

718 N. Marine Corps Drive, Suite 201
Tamuning, Guam 96913-4425
(671) 647-4842/3
(671) 647-4866 (facsimile)

BARRIGADA TRAINING FACILITY:

196 East Route 8
Barrigada, Guam
September 2019



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Core Curriculum (2015):

Basic Safety * Introduction to Construction Math * Introduction to Hand Tools * Introduction to Power Tools * Introduction to Construction Drawings * Basic Rigging * Basic Communication Skills * Basic Employability Skills * Introduction to Materials Handling

Core Curriculum: **85 hours** **Core Tuition:** **\$1,360.00** **Core Textbook:** **\$95.00**

HVAC Level 1 (2018):

Introduction to HVAC * Trade Mathematics * Basic Electricity * Introduction to Heating * Introduction to Cooling * Introduction to Air Distribution Systems * Basic Copper & Plastic Piping Practices * Soldering & Brazing * Basic Carbon Steel Piping Practices

HVAC Level 1: **120 hours** **Level 1 Tuition:** **\$1,920.00** **Level 1 Textbook:** **\$95.00**

HVAC Level 2 (2018):

Alternating Current * Compressors * Refrigerants & Oils * Leak Detection, Evacuation, Recovery & Charging * Metering Devices * Heat Pumps * Basic Maintenance * Chimneys, Vents & Flues * Sheet Metal Duct Systems * Fiberglass & Fabric Duct Systems * Commercial Airside Systems * Air Quality Equipment * Introduction to Hydronic Systems

HVAC Level 2: **175 hours** **Level 2 Tuition:** **\$2,800.00** **Level 2 Textbook:** **\$135.00**

HVAC Level 3 (2018):

Fasteners, Hardware, & Wiring Terminations * Control Circuit & Motor Troubleshooting * Troubleshooting Cooling * Troubleshooting Heat Pumps * Troubleshooting Gas Heating * Troubleshooting Oil Heating * Troubleshooting Accessories * Zoning, Ductless, & Variable Refrigerant Flow Systems * Commercial Hydronic Systems * Steam Systems * Retail Refrigerant Systems * Customer Relations

HVAC Level 3: **167.5 hours** **Level 3 Tuition:** **\$2,680.00** **Level 3 Textbook:** **\$135.00**

HVAC Level 4 (2018):

Water Treatment * Indoor Air Quality * Energy Conservation Equipment * Building Management Systems * System Air Balancing * System Startup & Shutdown * Construction Drawings & Specifications * Heating & Cooling System Designs * Commercial & Industrial Refrigeration Systems * Alternative & Specialized Heating & Cooling Systems * Fundamentals of Crew Leadership

HVAC Level 4: **160 hours** **Level 4 Tuition:** **\$2,560.00** **Level 4 Textbook:** **\$135.00**

Total HVAC Program: **707.5 hours** **Total Program Tuition:** **\$11,320.00** **Total Textbook Cost:** **\$595.00**



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