



TRADES ACADEMY

Building Skills For A Lifetime

HEATING VENTILATION AIR CONDITIONING & REFRIGERATION (HVACR)

Core Curriculum (6th Ed):

Build Your Future in Construction * 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: 95 hours Core Tuition: \$1,520 Core Textbook: \$100

HVACR Level 1 (6th Ed):

Introduction to HVACR * Trade Mathematics * Basic Electricity * Introduction to Heating * Introduction to Cooling * Air Distribution Systems * Basic Copper & Plastic Piping Practices * Soldering & Brazing * Basic Carbon Steel Piping Practices * USEPA Section 608 Certification

HVAC Level 1: 140 hours Level 1 Tuition: \$2,240 Level 1 Textbook: \$100
Modern Refrigeration: \$185
Section 608 fee: \$15

HVAC Level 2 (6th Ed):

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 System

HVAC Level 2: 175 hours Level 2 Tuition: \$2,800 Level 2 Textbook: \$140



GCA TRADES ACADEMY

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HVAC Level 3 (5th Ed):

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 Level 3 Textbook: \$140

HVAC Level 4 (5th Ed):

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 Level 4 Textbook: \$140

Total Heating Ventilation & Air Conditioning (HVAC) Program:	737.5 hours
Total Program Tuition:	\$11,800
Total Textbook & Fee Cost:	\$820
Total Program Cost:	\$12,620

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 an NCCER 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.