



TRADES ACADEMY

Building Skills For A Lifetime

506 Mariner Avenue, Tiyan
647-4842 / 3
elizabeth.aguero@guamcontractors.org
www.gcatradesacademy.org

Ongoing & Upcoming Course Schedule August 2025

CORE CURRICULUM

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

25-026	Mondays & Wednesdays	19May25 – 06Oct25	6:00 pm – 8:30 pm	Tiyan Training Facility room A204
25-033	Saturdays	24May25 – 27Sep25	8:00 am – 1:00 pm	Tiyan Training Facility room A103
25-036	Mondays & Wednesdays	04Aug25 – 17Dec25	6:00 pm – 8:30 pm	Tiyan Training Facility room A103
25-044	Tuesday & Thursdays	24Jul25 – 09Dec25	6:00 pm – 8:30 pm	Tiyan Training Facility room A103

EROSION AND SEDIMENT CONTROL

Erosion & Sediment Control

25-045	Friday & Saturday	08Aug25 – 09Aug25	8:00 am - 5:00 pm	Tiyan Training Facility room A205
25-046	Friday & Saturday	12Sep25 – 13Sep25	8:00 am - 5:00 pm	Tiyan Training Facility room A205
25-051	Friday & Saturday	10Oct25 – 11Oct25	8:00 am - 5:00 pm	Tiyan Training Facility room A205

MOBILE CRANE OPERATIONS

Orientation to the Trade * Basic Principles of Cranes * Rigging Practices * Crane Communications * Crane Safety & Emergency Procedures * Operating a Crane

25-021	Tuesday & Thursdays	03Jun25 – 23Oct25	6:00 pm – 8:30 pm	Tiyan Training Facility room A101
25-060	Tuesday & Thursdays	04Nov25 – 09Apr26	6:00 pm – 8:30 pm	Tiyan Training Facility room A101

GCA Trades Academy – An NCCER Training Unit



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.

Class dates and course availability are subject to change. Please contact the GCA Trades Academy offices for latest schedule.



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WELDING (LEVEL 1)

Welding Safety * Oxyfuel Cutting * Plasma Arc Cutting (PAC) * Air Carbon Arc Cutting & Gouging * Base Metal Preparation * Weld Quality * SMAW – Equipment & Setup * SMAW Electrodes * SMAW – Beads & Fillet Welds * Joint Fit-up & Alignment * SMAW – Groove Welds with Backing * Open Root Groove Welds-Plate
24-087 Saturdays 11Jan25 – 07Feb26 1:00 pm – 6:00 pm Tiyan Training Facility room A101

WELDING (LEVEL 2)

Welding Symbols * Reading Welding Detail Drawings * Physical Characteristics & Mechanics Properties of Metals * Preheating & Postheating of Metals * GMAW & FCAW – Equipment & Filler Metals * GMAW – Plate * FCAW-Plate * GTAW – Equipment & Filler Materials * GTAW – Plate
24-079 Saturdays 14Dec24 – 25Oct25 8:00 am – 12:00 noon Tiyan Training Facility room A101

CARPENTRY (LEVEL 1)

Orientation to Carpentry * Building Materials & Fasteners * Construction Plans & Documents * Principles of Site & Building Layout * Floor Systems * Wall Systems * Roof Framing * Basic Stair Layout * Building Envelope Systems
24-082 Mondays & Wednesdays 26Apr25 – 01Oct25 6:00 pm – 8:30 pm Tiyan Training Facility room B102

CARPENTRY (LEVEL 3)

Properties of Concrete * Rigging Equipment * Rigging Practices * Trenching & Excavating * Reinforcing Concrete * Foundations & Slab-on-grade * Vertical Formwork * Horizontal Formwork * Handling & Placing Concrete * Tilt-up Wall Panel3
25-035 Tuesday & Thursdays 12Aug25 – 02Apr26 6:00 pm – 8:30 pm Tiyan Training Facility room A203



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SAFETY TECHNOLOGY

Introduction to Safety Technology * Positive Safety Communication * Hazard Recognition, Environmental Awareness, & Occupational Health * Job Safety Analysis & Pre-task Planning * Safety Data Tracking & Trending * Site Safety Plans * Safety Orientation & Safety Meetings * Permits & Policies * Incident Investigations, Policies & Analysis * OSHA Inspections & Recordkeeping

25-043 Mon-Wed-Fridays 28Jul25 – 05Sep25 6:00 pm – 8:30 pm Tiyan Training Facility room A202

HEAVY EQUIPMENT OPERATOR (LEVEL 2)

Rough Terrain Forklifts * On-Road Dump Trucks * Excavation Math * Interpreting Civil Drawings * Site Work * Soils * Skid Steers * Loaders

25-037 Mondays & Wednesdays 11Aug25 – 22Apr26 6:00 pm – 8:30 pm Tiyan Training Facility room A201

HEAVY EQUIPMENT OPERATOR (LEVEL 3)

Finishing & Grading * Compaction Equipment * Backhoes * Off-Road Dump Trucks * Dozers * Excavators * Motor Graders

24-088 Mondays & Wednesdays 10Mar25 – 21Jan26 6:00 pm – 8:30 pm Tiyan Training Facility room A101



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PLUMBING (LEVEL 1)

Introduction to the Plumbing Industry * Plumbing Safety * Tools of the Plumbing Trade * Introduction to Plumbing Math * Introduction to Plumbing Drawings * Plastic Pipe & Fittings * Copper Pipe & Fittings * Cast-Iron Pipe & Fittings * Steel Pipe & Fittings * Introduction to Plumbing Fixtures * Introduction to Drain, Waste, & Vent (DWV) Systems * Introduction to Water Distribution Systems

24-084 Saturdays 15Feb25 – 06Sep25 8:00 am – 12:00 noon Tiyan Training Facility room A206

PLUMBING (LEVEL 4)

Business Principals for Plumbers * Fundamentals of Crew Leadership * Water Pressure Booster & Recirculation Systems * Indirect & Special Waste * Hydronic & Solar Heating Systems * Codes * Private Water Supply Well Systems * Private Waste Disposal Systems * Swimming Pools & Hot Tubs * Plumbing for Mobile Homes & Travel Trailers * Introduction to Medical Gas & Vacuum Systems

25-031 Tuesday & Thursdays 12Aug25 – 17Mar26 6:00 pm – 8:30 pm Tiyan Training Facility room A202

PROJECT MANAGEMENT

Introduction to Project Management * Safety * Interpersonal Skills * Issues & Resolutions * Construction Documents * Construction Planning * Estimating & Cost Control * Scheduling * Resource Control * Quality Control * Continuous Improvement

25-029 Saturdays 05Jul25 – 27Dec25 1:00 pm – 6:00 pm Tiyan Training Facility room A103

DIESEL TRUCK MECHANIC (LEVEL 1)

Introduction to Servicing Heavy-Duty Trucks * Shop Safety & Operations * Tools & Fasteners * Maintenance Programs * Fundamentals of Electricity * Fundamentals of Electronics & Computers * Batteries * Charging Systems * Chassis Electrical Circuits * Diagnosis & Repair of Electronic Circuits * Multiplexing

25-027 Tuesdays & Thursdays 20May25 – 02Apr26 6:00 pm – 8:30 pm Tiyan Training Facility room B201 / B202



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ELECTRICAL (LEVEL 1)

Orientation to the Trade * Electrical Safety * Introduction to Electrical Circuits * Electrical Theory * Introduction to the National Electric Code * Device Boxes * Hand Bending * Raceways & Fittings * Conductors & Cables * Basic Electrical Construction Drawings * Residential Electrical Services * Electrical Test Equipment

25-024 Tuesdays & Thursdays 13May25 – 28Oct25 6:00 pm – 8:30 pm Tiyan Training Facility room A106

ELECTRICAL (LEVEL 2)

Alternating Current * Motors: Theory & Application * Electrical Lighting * Conduit Bending * Pull & Junction Boxes * Conductor Installations * Cable Tray * Conductor Terminations & Splices * Grounding & Bonding * Circuit Breakers & Fuses * Control Systems & Fundamental Concepts

25-003 Monday & Wednesdays 26Feb25 – 24Sep25 6:00 pm – 8:30 pm Tiyan Training Facility room A105

25-004 Saturdays 16Aug25 – 28Feb26 1:00 pm – 6:00 pm Tiyan Training Facility room B102

ELECTRICAL (LEVEL 3)

Load Calculations – Branch & Feeder Circuits * Conductor Selection & Calculations * Practical Applications of Lighting * Hazardous Locations * Overcurrent Protection * Distribution Equipment * Transformers * Commercial Electrical Systems * Motor Calculations * Voice, Data, & Video * Motor Controls

25-007 Tuesdays & Thursdays 06Mar25 – 07Oct25 6:00 pm – 8:30 pm Tiyan Training Facility room A105

25-052 Monday & Wednesdays 01Oct25 – 20May26 6:00 pm – 8:30 pm Tiyan Training Facility room A105

ELECTRICAL (LEVEL 4)

Load Calculations – Feeder & Services * Health Care Facilities * Standby & Emergency Systems * Basic Electronic Theory * Fire Alarm Systems * Specialty Transformers * Advanced Motor Controls * HVAC Controls * Heat Tracing & Freeze Protection * Motor Operation & Maintenance * Medium Voltage Termination & Splices * Specialty Locations * Fundamentals of Crew Leadership

25-008 Monday & Wednesdays 05May25 – 10Nov25 6:00 pm – 8:30 pm Tiyan Training Facility room A106

25-053 Tuesdays & Thursdays 09Oct25 – 02Jul26 6:00 pm – 8:30 pm Tiyan Training Facility room A105



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HEATING VENTILATION AIR CONDITIONING (LEVEL 1)

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 * USEPA Section 608 certification

25-023	Saturdays	15Mar25 – 30Aug25	1:00 pm – 6:00 pm	Tiyan Training Facility room A105
25-032	Tuesdays & Thursdays	27May25 – 11Dec25	6:00 pm – 8:30 pm	Tiyan Training Facility room B102

HEATING VENTILATION AIR CONDITIONING (LEVEL 2)

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

25-002	Tuesdays & Thursdays	15May25 – 27Jan26	6:00 pm – 8:30 pm	Tiyan Training Facility room B101
25-038	Saturdays	05Jul25 – 28Feb26	8:00 am – 12:00 noon	Tiyan Training Facility room A105

HEATING VENTILATION AIR CONDITIONING (LEVEL 3)

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

24-074	Friday & Saturday	23Dec24 – 04Oct25	6:00 pm – 8:30 pm	Tiyan Training Facility room B102
25-006	Mondays & Wednesdays	12May25 – 14Jan26	6:00 pm – 8:30 pm	Tiyan Training Facility room B101

HEATING VENTILATION AIR CONDITIONING (LEVEL 4)

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

25-054	Fridays & Saturdays	11Oct25 – 23May26	6:00 pm – 8:30 pm	Tiyan Training Facility room B102
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