



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 2026

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

26-024	Mondays & Wednesdays	20May26 – 05Oct26	6:00 pm – 8:30 pm	Tiyan Training Facility room A103
26-036	Saturdays	27Jun26 – 07Nov26	8:00 am – 12:00 noon	Tiyan Training Facility room A105
26-034	Tuesday & Thursdays	16Jul26 – 10Dec26	6:00 pm – 8:30 pm	Tiyan Training Facility room A103
26-039	Tue-Wed-Thursdays	21Jul26 – 14Oct26	To Be Determined	Guam Department of Corrections
26-040	Tue-Wed-Thursdays	18Aug26 – 11Nov26	To Be Determined	Guam Department of Corrections
26-045	Saturdays	08Aug26 – 12Dec26	8:00 am – 12:00 noon	Tiyan Training Facility room A103
26-051	Mondays & Wednesdays	07Oct26 – 20Jan27	6:00 pm – 8:30 pm	Tiyan Training Facility room A103

EROSION AND SEDIMENT CONTROL

Erosion & Sediment Control

26-044	Friday & Saturday	21Aug26 – 22Aug26	8:00 am - 5:00 pm	Tiyan Training Facility room A205
26-049	Friday & Saturday	18Sep26 – 19Sep26	8:00 am - 5:00 pm	Tiyan Training Facility room A205

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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PROJECT SUPERVISION

Orientation to the Job * Human Relations & Problem Solving * Safety * Quality Control * Contract & Construction Documents * Document Control & Estimating * Planning & Scheduling * Resource Control & Cost Awareness

26-021 Mondays & Wednesdays 27May26 – 28Sep26 6:00 pm – 8:30 pm Tiyan Training Facility room A202

FUNDAMENTALS OF CREW LEADERSHIP

Fundamentals of Crew Leadership

26-050 Mondays & Wednesdays 30Sep26 – 02Nov26 6:00 pm – 8:30 pm Tiyan Training Facility room A202

CARPENTRY (LEVEL 4)

Site Layout One – Differential Leveling * Site Layout Two - Angular & Distance Measurement * Advanced Roof Systems * Advanced Wall Systems * Advanced Stair Systems * Introduction to Construction Equipment * Introduction to Oxyfuel Cutting & Arc Welding * Site Preparation * Fundamentals of Crew Leadership

26-041 Tuesday & Thursdays 14Jul27 – 30Mar27 6:00 pm – 8:30 pm Tiyan Training Facility room A203

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

25-080 Saturdays 08Nov25 – 01Aug26 1:00 pm – 6:00 pm Tiyan Training Facility room A101

WELDING (LEVEL 3)

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

25-064 Saturdays 01Nov25 – 14Aug27 8:00 am – 12:00 noon Tiyan Training Facility room A101

PLUMBING (LEVEL 3)

Applied Math * Sizing & Protecting the Water Supply System * Potable Water Supply Treatment * Types of Venting * Sizing DWV & Storm Systems * Sewage Pumps & Sump Pumps * Corrosive-Resistant Waste Piping * Compressed Air * Service Plumbing

26-033 Mondays & Wednesdays 12Aug26 – 24Mar27 6:00 pm – 8:30 pm Tiyan Training Facility room A206



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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

26-037 Mon-Wed-Fridays 12Aug26 – 23Sep26 6:00 pm – 8:30 pm Tiyan Training Facility room A204

HEAVY EQUIPMENT OPERATOR (LEVEL 3)

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

26-032 Mondays & Wednesdays 12Aug26 – 20Jan27 6:00 pm – 8:30 pm Tiyan Training Facility room A101

PAINTING (LEVEL 1)

Careers in the Painting Trade * Safety * Ladders, Scaffolds, Lifts, & Fall Protection * Identifying Surface / Substrate Materials & Conditions * Protecting Adjacent Surfaces * Basic Surface Preparation * Sealants & Repairs / Fillers * Introduction to Paint & Coatings * Burshing & Rolling Paints & Coatings

26-012 Mondays & Wednesdays 15Jul26 – 09Nov26 6:00 pm – 8:30 pm Tiyan Training Facility room A203

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 – 11Aug26 6:00 pm – 8:30 pm Tiyan Training Facility room B201 / B202

DIESEL TRUCK MECHANIC (LEVEL 2)

Hydraulics * Clutches * Standard Transmissions * Standard Transmission Servicing * Torque Converters * Automatic Transmissions * Automatic Transmission Maintenance * Automatic Manual & Hybrid Transmissions * Electrically Controlled Automatic Transmissions (ECATs)

26-026 Tuesdays & Thursdays 13Aug26– 06Jul27 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

26-009	Monday & Wednesdays	23Feb26 – 12Aug26	6:00 pm – 8:30 pm	Tiyan Training Facility room A106
26-023	Tuesdays & Thursdays	16Jun26 – 03Dec26	6:00 pm – 8:30 pm	Tiyan Training Facility room A201/A202
26-042	Tuesdays & Thursdays	14Jul26 – 07Jan27	6:00 pm – 8:30 pm	Tiyan Training Facility room A206

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

25-004	Monday & Wednesdays	08Nov25 – 12Aug26	6:00 pm – 8:30 pm	Tiyan Training Facility room A201
26-007	Monday & Wednesdays	17Aug26 – 22Mar27	6:00 pm – 8:30 pm	Tiyan Training Facility room A106

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

26-028	Monday & Wednesdays	17Aug26 – 05Apr27	6:00 pm – 8:30 pm	Tiyan Training Facility room A201
26-048	Tuesdays & Thursdays	13Aug26 – 23Mar27	6:00 pm – 8:30 pm	Tiyan Training Facility room A106

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

26-027	Monday & Wednesdays	15Jul26 – 12Apr27	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

26-010	Mondays & Wednesdays	24Feb26 – 07Sep26	6:00 pm – 8:30 pm	Tiyan Training Facility room A205
26-030	Mondays & Wednesdays	27May26 – 21Dec26	6:00 pm – 8:30 pm	Tiyan Training Facility room B102
26-043	Saturdays	14Jul26 – 16Jan27	1:00 pm – 6:00 pm	Tiyan Training Facility room A106

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

25-072	Tuesdays & Thursdays	16Dec25 – 20Aug26	6:00 pm – 8:30 pm	Tiyan Training Facility room B102
26-038	Mondays & Wednesdays	09Sep26 – 26May27	6:00 pm – 8:30 pm	Tiyan Training Facility room A205

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

26-005	Tuesdays & Thursdays	28May26 – 21Jan27	6:00 pm – 8:30 pm	Tiyan Training Facility room B101
26-029	Tuesdays & Thursdays	25Aug26 – 29Apr27	6:00 pm – 8:30 pm	Tiyan Training Facility room B102

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

26-004	Mondays & Wednesdays	01Jun26 – 25Jan27	6:00 pm – 8:30 pm	Tiyan Training Facility room B101
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