



# TRADES ACADEMY

Building Skills For A Lifetime

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

## Ongoing & Upcoming Course Schedule April 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

<b>25-011</b>	Mondays & Wednesdays	03Feb25 – 11Jun25	6:00 pm – 8:30 pm	Tiyan Training Facility room A103
<b>25-022</b>	Tuesday & Thursdays	13Mar25 – 15Jul25	6:00 pm – 8:30 pm	Tiyan Training Facility room A203 / A204
<b>25-019</b>	Tuesday & Thursdays	25Mar25 – 24Jul25	6:00 pm – 8:30 pm	Tiyan Training Facility room A103
<b>25-026</b>	Mondays & Wednesdays	14Apr25 – 20Aug25	6:00 pm – 8:30 pm	Tiyan Training Facility room A204

### EROSION AND SEDIMENT CONTROL

Erosion & Sediment Control

<b>25-018</b>	Friday & Saturday	04Apr25 – 05Apr25	8:00 am - 5:00 pm	Tiyan Training Facility room A205
<b>25-028</b>	Friday & Saturday	02May25 – 03May25	8:00 am - 5:00 pm	Tiyan Training Facility room A205

### 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

<b>24-062</b>	Saturdays	12Oct24 – 31May25	1:00 pm – 6:00 pm	Tiyan Training Facility room A103
<b>25-029</b>	Saturdays	07Jun25 – 29Nov25	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

<b>25-027</b>	Tuesdays & Thursdays	22Apr25 – 05Mar26	6:00 pm – 8:30 pm	Tiyan Training Facility room B201 / B202
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### 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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### 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 22Apr24 – 28Aug25 1:00 pm – 6:00 pm Tiyan Training Facility room A101

### 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 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

**24-078** Tuesday & Thursdays 17Dec24 – 31Jul25 6:00 pm – 8:30 pm Tiyan Training Facility room A201/A202

### 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

### FIELD SAFETY

Introduction to Safety \* Work-Zone Safety \* Steel Erection \* Concrete & Masonry \* Confined Spaces & Excavation \* Electrical Safety \* Working from Elevations \* Heavy Equipment, Forklifts & Cranes \* Introduction to Materials Handling

**25-025** Mon-Wed-Fridays 14Apr25 – 23May25 6:00 pm – 8:30 pm Tiyan Training Facility room A202



## Ongoing & Upcoming Course Schedule April 2025

### CONSTRUCTION CRAFT LABORER (LEVEL 1)

CARPENTRY 1: Introduction to the Trade \* CARPENTRY 1: Building Materials, Fasteners, & Adhesives \* CARPENTRY 3: Properties of Concrete \* CARPENTRY 4: Site Layout One – Differential Leveling \* CARPENTRY 3: Handling & Placing Concrete \* CARPENTRY 3: Foundations & Slab on Grade  
**24-083** Saturdays 12Apr25 – 23Aug25 1:00 pm – 6:00 pm Tiyan Training Facility room A203

### 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** Saturdays 12Apr25 – 29Nov25 8:00 am – 12:00 noon Tiyan Training Facility room A203

### CARPENTRY (LEVEL 2)

Commercial Drawings \* Cold-Formed Steel Framing \* Exterior Finishing \* Thermal & Moisture Protection \* Roofing Applications \* Doors & Door Hardware \* Drywall Installing \* Drywall Finishing \* Suspended Ceilings \* Window, Door, Floor & Ceiling Trim \* Cabinet Installation  
**24-051** Tuesday & Thursdays 27Aug24 – 03Jun25 6:00 pm – 8:30 pm Tiyan Training Facility room B205/B206

### HEAVY EQUIPMENT OPERATOR (LEVEL 1)

Orientation to the Trade \* Heavy Equipment Safety \* Identification of Heavy Equipment \* Basic Operations Techniques \* Utility Tractors \* Introduction to Earth Moving \* Grades, Part One  
**24-086** Mondays & Wednesdays 13Jan25 – 09Jun25 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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### ELECTRICAL / ELECTRONIC SYSTEM TECHNICIAN (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

**24-081** Tuesdays & Thursdays 14Dec24 – 27May25 8:00 am – 12:00 noon Tiyan Training Facility room B102

**25-024** Saturdays 05Apr25 – 13Sep25 8:00 am – 12:00 noon Tiyan Training Facility room A105

### ELECTRICAL / ELECTRONIC SYSTEM TECHNICIAN (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 28Feb25 – 24Sep25 6:00 pm – 8:30 pm Tiyan Training Facility room A105

**25-004** Monday & Wednesdays 26Mar25 – 27Oct25 6:00 pm – 8:30 pm Tiyan Training Facility room A205/A206

### 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

### 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

**24-013** Monday & Wednesdays 26Aug24 – 21May25 6:00 pm – 8:30 pm Tiyan Training Facility room A106

**25-008** Tuesdays & Thursdays 18Mar25 – 04Dec25 6:00 pm – 8:30 pm Tiyan Training Facility room A106



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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

<b>24-085</b>	Saturdays	14Dec24 – 28Jun25	8:00 am – 12:00 noon	Tiyan Training Facility room B102
<b>25-023</b>	Saturdays	15Mar25 – 27Sep25	1:00 pm – 6:00 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

<b>25-002</b>	Tuesdays & Thursdays	01Apr25 – 04Dec25	6:00 pm – 8:30 pm	Tiyan Training Facility room B101
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### 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

<b>24-074</b>	Mondays & Wednesdays	23Dec24 – 03Sep25	6:00 pm – 8:30 pm	Tiyan Training Facility room B102
<b>25-006</b>	Mondays & Wednesdays	31Mar25 – 26Nov25	6:00 pm – 8:30 pm	Tiyan Training Facility room B101