



TRADES ACADEMY

Building Skills For A Lifetime

506 Mariner Avenue, Tiyan
 647-4842 / 3
 647-4843 (fax)
 gcatrades@guam.net
 www.gcatradesacademy.org

Ongoing & Upcoming Course Schedule November 2023

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

23-056	Tuesday & Thursdays	17Aug23 – 18Jan24	6:00 pm – 8:30 pm	Tiyan Training Facility room A103
23-060	Saturdays	02Sep23 – 24Feb24	8:00 am – 12:00 noon	Tiyan Training Facility room A103
23-043	Mondays & Wednesdays	13Nov23 – 01Apr24	6:00 pm – 8:30 pm	Tiyan Training Facility room A103
23-079	Mon-Wed-Fridays	18Sep23 – 29Nov23	6:00 pm – 8:30 pm	Tiyan Training Facility room A101

EROSION AND SEDIMENT CONTROL

Erosion & Sediment Control

23-075	Friday & Saturday	01Dec23 – 02Dec23	8:00 am - 5:00 pm	Tiyan Training Facility room A201
23-087	Friday & Saturday	17Nov23 – 18Nov23	8:00 am - 5:00 pm	Tiyan Training Facility room A201

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

23-051	Tuesday & Thursdays	14Nov23 – 04Jun24	6:00 pm – 8:30 pm	Tiyan Training Facility room A106
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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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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

23-085 Tuesday & Thursdays 14Nov23 – 11Jul24 6:00 pm – 8:30 pm Tiyan Training Facility room A206

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

23-088 Saturdays 18Nov23 – 21Dec24 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

23-089 Mon-Wed-Fridays 11Dec23 – 26Jan24 6:00 pm – 8:30 pm Tiyan Training Facility room A201

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

23-086 Mon-Wed-Fridays 30Oct23 – 08Dec23 6:00 pm – 8:30 pm Tiyan Training Facility room A201



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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

23-082 Saturdays 18Nov23 – 06Apr23 8:00 am – 12:00 noon Tiyan Training Facility room A205

HEAVY EQUIPMENT OPERATOR (LEVEL 2)

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

23-001 Monday & Wednesdays 03Apr23 – 29Nov23 6:00 pm – 8:30 pm Tiyan Training Facility room A205

23-061 Tuesday & Thursdays 22Aug23 – 09May24 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

23-003 Saturdays 06May23 – 09Mar24 1:00 pm – 6:00 pm Tiyan Training Facility room A101

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

23-027 Tuesdays & Thursdays 04Apr23 – 19Dec23 6:00 pm – 8:30 pm Tiyan Training Facility room A101

NCCER INSTRUCTOR CERTIFICATION TRAINING PROGRAM (ICTP)

23-080 Tue-Wed-Thu 07Nov23 – 09Nov23 8:00 am – 5:00 pm Tiyan Training Facility room A103



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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

23-030	Tuesdays & Thursdays	18Apr23 - 02Nov23	6:00 pm – 8:30 pm	Tiyan Training Facility room A106
23-084	Tuesdays & Thursdays	14Nov23 – 02May24	6:00 pm – 8:30 pm	Tiyan Training Facility room A206

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

23-011	Monday & Wednesdays	03Jul23 – 13Nov23	6:00 pm – 8:30 pm	Tiyan Training Facility room A106
23-062	Fridays & Saturdays	26Aug23 – 11May24	6:00 pm – 8:30 pm	Tiyan Training Facility room A106
23-076	Tuesdays & Thursdays	14Nov23 – 04Jun24	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

23-077	Monday & Wednesdays	15Nov23 – 13Mar24	6:00 pm – 8:30 pm	Tiyan Training Facility room A106
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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

23-012	Saturdays	18Nov23 – 03Aug24	8:00 am – 12:00 noon	Tiyan Training Facility room A105
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Ongoing & Upcoming Course Schedule November 2023

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

23-052	Mondays & Wednesdays	07Aug23 – 05Feb24	6:00 pm – 8:30 pm	Tiyan Training Facility room B101
23-083	Mondays & Wednesdays	13Nov23 – 08May24	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

23-057	Saturdays	19Aug23 – 27Apr24	12:00 noon – 5:00 pm	Tiyan Training Facility room B102
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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

23-010	Mondays & Wednesdays	13Mar23 – 29Nov23	6:00 pm – 8:30 pm	Tiyan Training Facility room B102
23-074	Tuesdays & Thursdays	14Nov23 – 09Jul24	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

23-007	Tuesdays & Thursdays	14Nov23 – 25Jun24	6:00 pm – 8:30 pm	Tiyan Training Facility room B101
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