



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 April 2024

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

24-008	Tuesday & Thursdays	23Jan24 – 18Apr24	6:00 pm – 8:30 pm	Tiyan Training Facility room A103
24-024	Tuesday & Thursdays	23Apr24 – 27Aug24	6:00 pm – 8:30 pm	Tiyan Training Facility room A103
24-014	Mondays & Wednesdays	25Mar24 – 31Jul24	6:00 pm – 8:30 pm	Tiyan Training Facility room A103

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

24-019	Tuesdays & Thursdays	12Mar24 – 09Jul24	6:00 pm – 8:30 pm	Tiyan Training Facility room A203/A204
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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

24-021	Saturdays	16Mar24 – 21Sep24	1:00 pm – 6:00 pm	Tiyan Training Facility room A103
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EROSION AND SEDIMENT CONTROL

Erosion & Sediment Control

24-018	Friday & Saturday	19Apr24 – 20Apr24	8:00 am - 5:00 pm	Tiyan Training Facility room A205/A206
24-035	Friday & Saturday	10May24 – 11May24	8:00 am - 5:00 pm	Tiyan Training Facility room A205/A206

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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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 21Nov23 – 02May24 6:00 pm – 8:30 pm Tiyan Training Facility room A201/A202

PLUMBING (LEVEL 2)

Plumbing Math Two * Reading Commercial Drawings * Structural Penetrations, Insulation, & Fire Stopping * Installing & Testing DWV Piping * Installing Roof, Floor, & Area Drains * Installing & Testing Water Supply Piping * Types of Valves* Installing Fixtures & Valves * Installing Water Heaters * Basic Electricity * Fuel Gas & Fuel Oil Systems

24-034 Tuesday & Thursdays 07May24 – 14Jan25 6:00 pm – 8:30 pm Tiyan Training Facility room A201/A202

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 21Nov23 – 22Aug24 6:00 pm – 8:30 pm Tiyan Training Facility room B201/B202

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

24-012 Saturdays 13Jan24 – 06Jul24 8:00 am – 12:00 noon Tiyan Training Facility room B102

24-020 Saturdays 24Feb24 – 24Aug24 1:00 pm – 6:00 pm Tiyan Training Facility room B102



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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 – 04May24 8:00 am – 12:00 noon Tiyan Training Facility room A201/A202

HEAVY EQUIPMENT OPERATOR (LEVEL 2)

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

24-015 Saturdays 11May24 – 30Nov24 8:00 am – 12:00 noon Tiyan Training Facility room A201/A202

HEAVY EQUIPMENT OPERATOR (LEVEL 3)

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

23-095 Monday & Wednesdays 20Dec23 – 23Oct24 6:00 pm – 8:30 pm Tiyan Training Facility room A101

24-016 Tuesday & Thursdays 23Apr24 – 21Jan25 6:00 pm – 8:30 pm Tiyan Training Facility room A101

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 – 28Dec24 8:00 am – 12:00 noon 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

23-084 Tuesdays & Thursdays 21Nov23 – 18Jun24 6:00 pm – 8:30 pm 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

24-023 Tuesdays & Thursdays 20Jun24 – 16Jan25 6:00 pm – 8:30 pm Tiyan Training Facility room A105

23-076 Tuesdays & Thursdays 07Dec23 – 25Jun24 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 20Nov23 – 31Jul24 6:00 pm – 8:30 pm Tiyan Training Facility room A106

24-036 Tuesdays & Thursdays 27Jun24 – 06Feb25 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

23-012 Saturdays 18Nov23 – 26Oct24 8:00 am – 12:00 noon Tiyan Training Facility room A105



Ongoing & Upcoming Course Schedule April 2024

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
23-083 Mondays & Wednesdays 20Nov23 – 28Apr24 6:00 pm – 8:30 pm Tiyan Training Facility room B102

HEATING VENTILATION AIR CONDITIONING (USEPA Section 608)

USEPA Section 608 certification
24-032 Mondays & Wednesdays 08Apr24 – 24Apr24 6:00 pm – 8:30 pm Tiyan Training Facility room B101

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
24-009 Mondays & Wednesdays 29Apr24 – 04Sep24 6:00 pm – 8:30 pm Tiyan Training Facility room B101
24-022 Mondays & Wednesdays 29Apr24 – 04Sep24 6:00 pm – 8:30 pm Tiyan Training Facility room B102

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
23-074 Tuesdays & Thursdays 21Nov23 – 23Apr24 6:00 pm – 8:30 pm Tiyan Training Facility room B102
24-017 Fridays & Saturdays 05Apr24 – 03Aug24 6:00 pm – 8:30 pm Tiyan Training Facility room A105

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 21Nov23 – 02Jul24 6:00 pm – 8:30 pm Tiyan Training Facility room B101
24-033 Tuesdays & Thursdays 25Apr24 - 10Dec24 6:00 pm – 8:30 pm Tiyan Training Facility room B102