



TRADES ACADEMY

Building Skills For A Lifetime

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

Course Schedule August 2022 – October 2022

CORE CURRICULUM

00100	Build Your Future in Construction				
00101	Basic Safety				
00102	Introduction to Construction Math				
00103	Introduction to Hand Tools				
00104	Introduction to Power Tools				
00105	Introduction to Construction Drawings				
00106	Basic Rigging				
00107	Basic Communication Skills				
00108	Basic Employability Skills				
00109	Introduction to Material Handling				
22-173	Mondays & Wednesdays	01Aug22 – 07Dec22	6:00 pm – 8:30 pm	Tiyan Training Facility room A103	
22-175	Tuesday & Thursdays	02Aug22 – 01Sep22	6:00 pm – 8:30 pm	Tiyan Training Facility room A103	
22-159	Saturdays	06Aug22 – 10Dec22	8:00 am – 12:00 noon	Tiyan Training Facility room A103	

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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SAFETY TECHNOLOGY

75201	Introduction to Safety Technology	75222	Site Safety Plans
75205	Positive Safety Communication	75223	Safety Orientation & Safety Meetings
75219	Hazard Recognition, Environmental Awareness, & Occupational Health	75224	Permits & Policies
75220	Job Safety Analysis & Pre-task Planning	75225	Incident Investigations, Policies & Analysis
75221	Safety Data Tracking & Trending	75226	OSHA Inspections & Recordkeeping
22-140	Saturdays	13Aug22 – 17Sep22	8:00 am – 5:00 pm
			Tiyan Training Facility room A205

PROJECT SCHEDULING

44102	Safety			
44106	Construction Planning			
44108	Scheduling			
44109	Resource Control			
44110	Quality Control			
22-249	Tuesdays & Thursdays	11Aug22 – 25Oct22	6:00 pm – 8:30 pm	Tiyan Training Facility room A101

EROSION AND SEDIMENT CONTROL

Erosion & Sediment Control				
22-231	Saturdays	20Aug22 – 03Sep122	1:00 pm – 6:00 pm	Tiyan Training Facility room A101



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HEAVY EQUIPMENT OPERATOR (LEVEL 1)

22101-12	Orientation to the Trade				
22102-12	Heavy Equipment Safety				
22103-12	Identification of Heavy Equipment				
22104-12	Basic Operations Techniques				
22105-12	Utility Tractors				
22201-12	Introduction to Earth Moving				
22106-12	Grades, Part One				
22-223	Monday & Wednesdays	08Aug22 – 19Oct22	6:00 pm – 8:30 pm		Tiyan Training Facility room A205

HEAVY EQUIPMENT OPERATOR (LEVEL 2)

22207-13	Excavation Math				
22209-13	Interpreting Civil Drawings				
22210-13	Site Work				
22308-13	Soils				
22212-13	Skid Steers				
22205-13	Loaders				
22-147	Monday & Wednesdays	01Aug22 – 11Jan23	6:00 pm – 8:30 pm		Tiyan Training Facility room A101

HEAVY EQUIPMENT BACKHOE OPERATOR

22104	Basic Operational Techniques				
22106	Grades				
22207-13	Excavation Math				
22209-13	Interpreting Civil Drawings				
22210-13	Site Work				
22201	Introduction to Earthmoving				
22308-13	Soils				
22303-14	Backhoes				
22-154	Saturdays	10Sep22 – 29Apr23	1:00 pm – 6:00 pm		Tiyan Training Facility room A101



Course Schedule August 2022 – October 2022

CARPENTRY (LEVEL 4)

27409-14 **Site Preparation**
 22-178 Tuesdays & Thursdays 02Aug22 – 09Aug22 6:00 pm – 8:30 pm Tiyan Training Facility room A205

CONSTRUCTION CRAFT LABORER (LEVEL 1)

27101-13 **CARPENTRY 1: Introduction to the Trade**
 27102-13 **CARPENTRY 1: Building Materials, Fasteners, & Adhesives**
 27303-14 **CARPENTRY 3: Properties of Concrete**
 27401-14 **CARPENTRY 4: Site Layout One – Differential Leveling**
 27305-14 **CARPENTRY 3: Handling & Placing Concrete**
 27307-14 **CARPENTRY 3: Foundations & Slab on Grade**
 22-153 Saturdays 20Aug22 – 17Dec22 1:00 pm – 5:00 pm Tiyan Training Facility room B102

CONSTRUCTION CRAFT LABORER (LEVEL 2)

27304-14 **CARPENTRY 3: Reinforcing Concrete**
 27308-14 **CARPENTRY 3: Vertical Formwork**
 27309-14 **CARPENTRY 3: Horizontal Framework**
 75123-13 **FIELD SAFETY: Heavy Equipment, Forklift, & Crane Safety**
 75110-13 **FIELD SAFETY: Steel Erection**
 75121-13 **FIELD SAFETY: Electrical Safety**
 27406-14 **CARPENTRY 4: Introduction to Construction Equipment**
 22206-13 **HEAVY EQUIPMENT OPERATOR 2: Rough Terrain Forklifts**
 29102-15 **WELDING 1: Oxyfuel Cutting**
 28301-14 **MASONRY 3: Elevated Masonry**
 75122-13 **FIELD SAFETY: Working from Elevations**
 70101-14 **Your Role in the Green Environment**
 22-056 Monday & Wednesdays 08Aug22 – 28Dec22 6:00 pm – 8:30 pm Tiyan Training Facility room B102



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ELECTRICAL / ELECTRONIC SYSTEM TECHNICIAN (LEVEL 1)

- 26101-20 Orientation to the Trade
- 26102-20 Electrical Safety
- 26103-20 Introduction to Electrical Circuits
- 26104-20 Electrical Theory
- 26105-20 Introduction to the National Electric Code
- 26106-20 Device Boxes
- 26107-20 Hand Bending
- 26108-20 Raceways & Fittings
- 26109-20 Conductors & Cables
- 26110-20 Basic Electrical Construction Drawings
- 26111-20 Residential Electrical Services
- 26112-20 Electrical Test Equipment

22-224 Tuesdays & Thursdays 11Aug22 – 31Jan23 6:00 pm – 8:30 pm Tiyan Training Facility room A205

ELECTRICAL / ELECTRONIC SYSTEM TECHNICIAN (LEVEL 2)

- 26210-20 Circuit Breakers & Fuses
- 26211-20 Control Systems & Fundamental Concepts

22-177 Tuesdays & Thursdays 02Aug22 – 16Aug22 6:00 pm – 8:30 pm Tiyan Training Facility room B201

- 26201-20 Alternating Current
- 26202-20 Motors: Theory & Application
- 26203-20 Electrical Lighting
- 26204-20 Conduit Bending
- 26205-20 Pull & Junction Boxes
- 26206-20 Conductor Installations
- 26207-20 Cable Tray
- 26208-20 Conductor Terminations & Splices
- 26209-20 Grounding & Bonding
- 26210-20 Circuit Breakers & Fuses
- 26211-20 Control Systems & Fundamental Concepts

22-201 Saturdays 20Aug22 – 18Mar23 1:00 pm – 6:00 pm Tiyan Training Facility room B201



Course Schedule August 2022 – October 2022

ELECTRONIC SYSTEM TECHNICIAN (LEVEL 4)

33403-12	Broadband Systems				
33404-12	Media Management Systems				
33405-12	Telecommunication Systems				
22-200	Monday & Wednesdays	10Aug22 – 30Nov22	6:00 pm – 8:30 pm	Tiyan Training Facility room A203	

ELECTRICAL (LEVEL 3)

26301-20	Load Calculations – Branch & Feeder Circuits				
26302-20	Conductor Selection & Calculations				
26303-20	Practical Applications of Lighting				
26304-20	Hazardous Locations				
26305-20	Overcurrent Protection				
26306-20	Distribution Equipment				
26307-20	Transformers				
26308-20	Commercial Electrical Systems				
26309-20	Motor Calculations				
26310-20	Voice, Data, & Video				
26311-20	Motor Controls				
22-205	Tuesdays & Thursdays	18Aug22 – 09Mar23	6:00 pm – 8:30 pm	Tiyan Training Facility room B201	

HEATING VENTILATION AIR CONDITIONING (LEVEL 1)

03101	Introduction to HVAC				
03102	Trade Mathematics				
03106	Basic Electricity				
03108	Introduction to Heating				
03107	Introduction to Cooling				
03109	Introduction to Air Distribution Systems				
03103	Basic Copper & Plastic Piping Practices				
03104	Soldering & Brazing				
03105	Basic Carbon Steel Piping Practices				
22-222	Tuesdays & Thursdays	04Aug22 – 19Jan23	6:00 pm – 8:30 pm	Tiyan Training Facility room B102	



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HEATING VENTILATION AIR CONDITIONING (LEVEL 2)

03205	Leak Detection, Evacuation, Recovery, & Charging				
03303	Metering Devices				
03211	Heat Pumps				
03215	Basic Maintenance				
03202	Chimneys, Vents, & Flues				
03213	Sheet Metal Duct Systems				
03214	Fiberglass & Flexible Duct Systems				
03201	Commercial Airside Systems				
03204	Air Quality Equipment				
03203	Introduction to Hydronic Systems				
	22-079	Mondays & Wednesdays	08Aug22 – 06Mar23	6:00 pm – 8:30 pm	Tiyan Training Facility room A105
03202	Chimneys, Vents, & Flues				
03213	Sheet Metal Duct Systems				
03214	Fiberglass & Flexible Duct Systems				
03201	Commercial Airside Systems				
03204	Air Quality Equipment				
03203	Introduction to Hydronic Systems				
	22-167	Tuesdays & Thursdays	11Aug22 – 01Nov22	6:00 pm – 8:30 pm	Tiyan Training Facility room A105



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HEATING VENTILATION AIR CONDITIONING (LEVEL 2) (Continued)

03206	Alternating Current				
03302	Compressors				
03301	Refrigerant & Oils				
03205	Leak Detection, Evacuation, Recovery, & Charging				
03303	Metering Devices				
03211	Heat Pumps				
03215	Basic Maintenance				
03202	Chimneys, Vents, & Flues				
03213	Sheet Metal Duct Systems				
03214	Fiberglass & Flexible Duct Systems				
03201	Commercial Airside Systems				
03204	Air Quality Equipment				
03203	Introduction to Hydronic Systems				
22-202	Saturdays	13Aug22 – 29Apr23	8:00 am – 12:00 noon	Tiyan Training Facility room A105	

HEATING VENTILATION AIR CONDITIONING (LEVEL 3)

03305-13	Commercial Hydronic Systems				
03306-13	Steam Systems				
03304-13	Retail Refrigerant Systems				
03316-13	Customer Relations				
22-163	Mondays & Wednesdays	08Aug22 – 05Oct22	6:00 pm – 8:30 pm	Tiyan Training Facility room B101	



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HEATING VENTILATION AIR CONDITIONING (LEVEL 4)

03308-13	Water Treatment				
03403-13	Indoor Air Quality				
03404-13	Energy Conservation Equipment				
03405-13	Building Management Systems				
03402-13	System Air Balancing				
03406-13	System Startup & Shutdown				
03401-13	Construction Drawings & Specification				
03407-13	Heating & Cooling System Design				
03408-13	Commercial & Industrial Refrigeration Systems				
03409-13	Alternative & Specialized Heating & Cooling Systems				
46101-11	Fundamentals of Crew Leadership	22-212	Mondays & Wednesdays	05Oct22 – 05Jun23	6:00 pm – 8:30 pm
					Tiyan Training Facility room B101
03409-13	Alternative & Specialized Heating & Cooling Systems				
46101-11	Fundamentals of Crew Leadership	22-164	Tuesdays & Thursdays	11Aug22 – 20Sep22	6:00 pm – 8:30 pm
					Tiyan Training Facility room B101