

P.O. Box 504880 Saipan, MP 96950 Tel. No.: (670) 235-6684

Automotive Technology

Brake System:

Brake System Components - Brake Hydraulic System - Brake Fluid Lines - Wheel Bearing Systems - Parking Brake Operation - ABS Components, Operation & Diagnosis - Power Brake Unit Operation, Diagnosis - Disc Brakes - Drum Brakes

Brakes System: 200 Hours

Engine Performance:

Service Information- Environmental & Hazardous Materials - Gasoline Engine Operation - Diesel Engine Operation - Fuels - Cooling System Diagnosis - Intake & Exhaust System - Ignition Systems - Oxygen Sensors - Fuel Injection Components - Throttle Position Sensor

Engine Performance: 330 Hours

Steering, Suspensions and Alignment:

Service Information – Tires and Wheels – Tire Pressure Monitoring Systems – Suspension System Components – Front and Rear Suspension Service – Electronic Suspension Systems – Steering Columns and Gears – Alignment Diagnoses and services – Wheel Alignment Principles

Steering, Suspensions and Alignment: 200 Hours

Electricity and Electronics:

Environmental and Hazardous Materials – Electrical Fundamentals – Series and Parallel Circuits – Automotive Wiring and Wire Repair – Electronic Fundamentals – Computer Fundamentals – Battery and Battery Testing – Cranking System and Cranking System Diagnoses – Charging System and Charging System Diagnoses – Airbag and Pretensioner Circuits

Electricity and Electronics: 280 Hours



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Cosmetology

Cosmetology:

- Safety & Sanitation: Emergency First Aid, Personal Grooming & Hygiene, Tools & Proper Use, Electricity Safety
- Basic Training in General Theory & Practical Application: Shampoo, Types of Hair, Anatomy & Physiology, Skin Diseases & Conditions, Nail Technology & Basics
- Hair Styling & Dressing: Cutting, Thinning, Shaping, Application of Electrical/Mechanical Equipment, Curling, Hair Treatments
- Esthetics: Facial Massage, Skin Analysis, Cleansing the Skin, Mask Therapy & Facial Treatments, Nutrition & Health of Skin, Professional Makeup Techniques, Product Knowledge
- Nail Technology: Manicures, Pedicures, Nail Diseases & Conditions, Light Cured Gel, Machines & Tools, Hand/Arm/Foot Massage

Cosmetology: 360 Hours

Internship:

Upon completion of Cosmetology, students will intern with one of our partners on the island. Allowing our Cosmetology Students to gain their first steps into the industry. Must be completed within a six-month period.

Internship: 240 Hours



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Culinary Arts

Culinary Arts Level 1:

History of Food Service - Safety & Sanitation - Tools & Equipment - Culinary Math & Menu Costing - Basic Nutrition - Basic Cooking Principles & Methods - Basic Knife Skills - the final test will be a three-part exam that includes a written test, a knife skill practical, and a one-course meal cooking practical.

Culinary Arts Level 1: 116 Hours

Internship:

Upon completion of Culinary Arts Level 1, students will intern at a commercial operation that will take on an entry level position with one of our partners on the island. Allowing our Culinary Students to gain their first steps into our culinary industry. Internship will start simultaneously with Culinary Arts Level 2. Must be completed within a seven-month period.

Internship: 240 Hours

Culinary Arts Level 2:

Stocks Preparations - Regional Soups – The Five Mothers Sauces - Mise En Place - Demonstrating and Teaching Proper Techniques - Understanding, Preparation, and Cooking Different Starches, Vegetables, Proteins, and Garnishes - Hands-On Learning with Breakfast, Sandwiches and Salads - The final test will be a three-part exam that includes a written test, a knife skill practical, and a three-course meal cooking practical.

Culinary Arts Level 2: 122 Hours

Workforce Ready Baking & Pastry:

Coming Soon - Accelerated Program



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Baking & Pastry

Baking & Pastry:

This course is the first level of Baking and Pastry and it allows students more in-depth study of the baking and pastry arts. Areas of study include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and methods used in creating breads, pastries, cookies, and other desserts. The contents provide students with the opportunity to acquire marketable skills by examining both the industry and its career opportunity by developing food preparing, service skills and interpersonal skills. Laboratory facilities and handson experience offer school-based learning opportunities.

Baking & Pastry: 128 Hours

Internship:

Upon completion of Baking & Pastry, students will intern at a commercial operation that will take on an entry level position with one of our partners on the island. Allowing our Baking & Pastry Students to gain their first steps into the industry. Must be completed within a sevenmenth period.

Internship: 240 Hours



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Carpentry

Core:

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

Core: 85 Hours

Carpentry Level 1:

Orientation to the trade - Building Materials, Fasteners & Adhesives - Hand & Power Tools - Introduction to Construction Drawing, Specifications & Layouts - Floor Systems - Wall Systems - Ceiling Joist & Roof Framing - Basic Stair Layout - Introduction to Building Envelope System

Carpentry Level 1: 162.5 Hours

Carpentry Level 2:

Commercial Drawings - Roofing Applications - Thermal & Moisture Protection - Exterior Finishing - Cold Formed Steel Framing - Drywall Installing - Drywall Finishings - Door & Door Hardware - Suspended Ceilings - Window, Door, Floor & Ceiling Trim - Cabinet Installation Carpentry Level 2: 210 Hours

Carpentry Level 3:

Properties of Concrete - Rigging Equipment - Rigging Practices - Trenching & Excavating - Reinforcing Concrete - Foundations & Slab on grade - Vertical Formwork - Handling & Placing Concrete - Tilt Up Wall Panels

Carpentry Level 3: 160 Hours

Carpentry Level 4:

Site Layout One (Differential Leveling) - Site Layout Two (Angular & Distance Measurement) - Advance Roof Systems - Advanced Wall Systems - Introduction to Oxyfuel - Cutting & Arc Welding - Site Preparation - Fundamentals of Crew Leadership

Carpentry Level 4: 185 Hours



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Welding

Core:

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

Core: 85 Hours

Welding Level 1:

Welding Safety - Oxyfuel Cutting - Plasma Arc Cutting - Air Carbon Arc Cutting & Gouging - Base Metal Preparation - Weld Quality - Equipment & Set Up - SMAW (Electrodes) - SMAW (Beads & Fillet Welds) - Joint Fit Up & Alignments - SMAW (Groove Welds with Backing) - Open Root Groove Welds Plate

Welding Level 1: 285 Hours

Welding Level 2:

Welding Symbols - Reading Welding Detail Drawings - Physical Characteristics & Mechanical Properties of Metals - Preheating & Post Heating of Metals - GMAW & FCAW (Equipment & Filler Metals) - GMAC (Plate) - FCAW (Plate) - GTAW (Equipment & Filler Metals) - GTAW (Plate)

Welding Level 2: 227.5 Hours

Welding Level 3:

SMAW (Open Root Pipe Welds) - GMAW (Pipe) - FCAW (Pipe) - GTAW (Pipes) - GTAW (Low Alloy and Stainless Steel Pipe) - SMAW (Stainless Steel Plate & Pipe)

Welding Level 3: 470 Hours

Welding Level 4:

GMAW (Aluminum Plate) - GMAW (Aluminum Pipe) - GTAW (Aluminum Plate) - GTAW (Aluminum Pipe) - Soldering & Brazing

Welding Level 4: 172.5 Hours



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Electrical

Core:

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

Core: 85 Hours

Electrical Level 1:

Orientation to the trade - Electrical Safety - Introduction to Electrical Circuits - Electrical Circuits - Electrical Theory - Introduction to the National Electrical Code - Device Boxes - hand Bending - Raceways & Fittings - Conductors & Cables - Basic Electrical Construction Drawings -Residential Electrical Services - Electrical Test Equipment

Electrical Level 1: 120 Hours

Electrical Level 2:

Altering 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

Electrical Level 2: 145 Hours

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

Electrical Level 3: 155 Hours

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 - Fundamental of Crew Leadership

Electrical Level 4: 182.5 Hours



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Electronic Systems Technology

Prerequisite: CORE, Electrical Level 1, and Electrical Level 2

Electrical Systems Technology Level 3:

Limited Energy Cabling - Limited Energy Cable Selection - Limited Energy Cable Termination - Limited Energy Network Installations - Fiber Optics - Wireless Communication - Site, Survey, Project Planning and Documentation - Rack Assembly - System Commissioning and User Training - Maintenance & Repair

Electrical Systems Technology Level 3: 192.5 Hours

Electrical Systems Technology Level 4:

Audio Systems - Video Systems - Broadband - Media Management Systems - Telecommunication Systems - Residential and Commercial Networks - Intrusion Detection System

Electrical Systems Technology Level 4: 315 Hours



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Heating Ventilation and Air Conditioning

Core:

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

Core: 85 Hours

HVAC Level 1:

Introduction to HVAC - Trade Mathematics - Basic Electricity - Introduction to Heating - Introduction to Cooling - Introduction to Air Distribution Systems - Basic Cooper & Plastic Piping Practices - Soldering & Brazing - Basic Carbon Steel Piping Practices

HVAC Level 1: 120 Hours

HVAC Level 2:

Altering Current - Compressors - Refrigerants & Oils - Leak Detection, Evacuation, Recovery & Charging - Metering Devices - Heat Pumps - Basic Maintenance Chimneys, Vents & Flues - Sheet Metal Duct Systems - Fiberglass & Fabric Duct Systems - Commercial Airside Systems - Air Quality Equipment - Introduction to Hydronic Systems

HVAC Level 2: 175 Hours

HVAC 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

HVAC Level 3: 167.5 Hours

HVAC Level 4:

Water Treatment - Indoor Air quality - Energy Conservation Equipment - Building Management Systems - System Air Balancing - System Startup & Shutdown - Construction Drawings & Specifications - Heating & Cooling System Design - Crew Leadership

HVAC Level 4: 157.5 Hours



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Masonry

Core:

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

Core: 85 Hours

Masonry Level 1:

Introduction to Masonry - Masonry Safety - Masonry Tools & Equipment - Measurements, Drawings, & Specifications - Mortar - Masonry Units & Installation Techniques

Masonry Level 1: 122.5 Hours

Masonry Level 2:

Residential Plans & Drawing Interpretation - Residential Masonry - Reinforced Masonry - Masonry Opening & Metalwork - Advanced Laying Techniques - Effects of Climate on Masonry - Construction Inspection & Quality Control

Masonry Level 2: 152.5 Hours

Masonry Level 3:

Elevated Masonry - Specialized Materials & Techniques - Repair & Restoration - Commercial Drawings - Estimating - Site Layout (Distance Measurement & Leveling) - Stone Masonry - Fundamentals of Crew Leadership

Masonry Level 3: 200 Hours



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Construction Craft Laborer

Core:

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

Core: 85 Hours

Construction Craft Laborer Level 1:

Introduction to the Trade (Carpentry 1) - Building Materials, Fasteners, & Adhesives (Carpentry 1) - Properties of Concrete (Carpentry 3) - Site Layout (Differential Leveling) (Carpentry 4) - Handling & Placing Concrete (Carpentry 3) - Foundations & Slab Grade (Carpentry 3)

Construction Craft Laborer 1: 92.5 Hours

Construction Craft Laborer 2:

Reinforcing Concrete (Carpentry 3) - Vertical Formwork (Carpentry 3) - Horizontal Formwork (Carpentry 3) - Heavy Equipment, Forklift & Crane Safety (Field Safety) - Steel Erection (Field Safety) - Electrical Safety (Field Safety) - Introduction to Construction Equipment (Carpentry 4) - Rough Terrain Forklifts (Heavy Equipment Operator 2) - Oxy Fuel Cutting (Welding 1) - Elevated Masonry (Masonry 2) - Working from Elevations (Field Safety) - Your Role in the Green Environment

Construction Craft Laborer 2: 150 Hours



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Power Generation Maintenance Electrician

Core:

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

Core: 85 Hours

Power Generation Maintenance Electrician Level 1:

Tools of the Trade - Fasteners & Anchors - Oxyfuel Cutting - Gaskets & Packing - Craft-Related Mathematics - Construction Drawings - Pumps & Drivers - Valves - Introduction to Test Instruments - Material Handling & Hand Rigging - Mobile & Support Equipment - Lubrication - SMAW Equipment & Setup

Power Generation Maintenance Electrician Level 1: 151 Hours

Power Generation Maintenance Electrician Level 2:

Industrial Safety for E&I Technicians - Managing Electrical Hazards - Introduction to the National Electric Code - Electrical Theory - Alternating Current - E&I Drawings - E&I Test Equipment - Conductors & Cables - Conductor Terminations & Splices - Motor Controls - Hydraulic Controls - Pneumatic Controls - Programmable Logic Controllers

Power Generation Maintenance Electrician Level 2: 193.5 Hours

Power Generation Maintenance Electrician Level 3:

Conductor Installations - Cable Tray - Grounding & Bonding - Hand Bending - Machine Bending of Conduit - Electric Lighting - Practical Applications of Lighting - Hazardous Locations - Circuit Breakers & Fuses - Transformer Applications - Distribution Equipment - Power Plant Electrical Systems - Conductor Selection & Calculations - Motors: Theory & Application - Motor-Operated Valves - Control Systems & Fundamental Concepts - Temporary Grounding

Power Generation Maintenance Electrician Level 3: 256.5 Hours