



Automotive Technology

Level 1 (Engine):

Shop Safety * Environmental & Hazardous Materials * Fasteners & Thread Repair * Hand Tools * Power Tools & Shop Equipment * Vehicle Lifting & Hoisting * Measuring Systems * Tools * Cooling System Operation & Diagnosis * Lubrication System Operation & Diagnosis * Engine Startup & Charging Systems * Ignition System Operation & Diagnosis * Emission Control Device Operation & Diagnosis * Intake & Exhaust Systems * Turbocharging & Supercharging * Engine Condition Diagnosis * Engine Removal & Disassembly * Engine Cleaning & Cracking Detection * Cylinder Head & Valve Guide Service * Crankshaft & Valve Trains * Pistons, Rings, & Connecting Rods * Engine Blocks * Crankshafts, Balance Shafts & Bearings

Engine:	115 hours	Tuition:	\$1,840.00	Textbook:	\$125.00
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Level 2 (Steering & Suspension):

Service Information, Tools & Safety * Environmental & Hazardous Materials * Tires & Wheels * Tire Pressure Monitoring Systems * Tire & Wheel Service * Suspension Systems Components & Operations * Front Suspension & Service * Steering Linkage & Service * Power-Assisted Operations & Service * Wheel Bearings & Service * Drive Axle Shafts & CV Joints * Drive Axle Shafts & CV Joints Service * Wheel Alignment Principles * Alignment Diagnosis & Service * Vibration & Noise Diagnosis & Service

Steering & Suspension:	67.5 hours	Tuition:	\$1,080.00	Textbook:	\$125.00
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Level 3 (Brakes):

Service Information, Tools & Safety * Environmental & Hazardous Materials * Braking System Components & Performance * Standards * Braking System Principles * Braking Hydraulic Systems * Hydraulic Valves & Switches * Brake Fluid & Lines * Brake Bleeding Methods & Procedures * Wheel Bearings & Service * Brake Drums * Brake Drums Diagnostic & Service * Disk Brakes * Disk Brakes Diagnostic & Service * Parking Brake Unit Operation, Diagnostic & Service * Machining Brake Drums & Rotors * Power Brake Unit Operation, Diagnostic & Service * ABS Components & Operation * Antilocking Braking Systems * Electronic Stability Control Systems

Brakes:	97.5 hours	Tuition:	\$1,685.00	Textbook:	\$125.00
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Accredited Training Unit

GCA TRADES ACADEMY OFFICE:
East West Business Center
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Tamuning, Guam 96913-4425
(671) 647-4842/3
(671) 647-4866 (facsimile)

BARRIGADA TRAINING FACILITY:
196 East Route 8
Barrigada, Guam

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Level 4 (Electrical):

Service Information, Tools & Safety * Environmental & Hazardous Materials * Electrical Fundamentals * Series Circuits * Parallel Circuits * Series-Paralle Circuits * Digital Meters * Wiring & Wire Repair * Schematics & Troubleshooting * Electronic Fundamentals * Computer Fundamentals * Batteries * Battery Testing & Service * Cranking System * Cranking System Diagnostic & Service * Charging System * Charging System Diagnostic & Service * Computer & Network Fundamentals * On-Board Diagnosis * Computer Sensors * Ignition System Components * Ignition System Diagnostic & Service * Fuel Pumps, Lines & Filters * Fuel Injection Components & Operations * Fuel Injection System Diagnostic & Service * Scan Tools & Engine Performance Diagnosis

Electrical:	155 hours	Tuition:	\$2,605.00	Textbook:	\$125.00
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Diesel:

Diesel Engine: Theory * Introduction * Removal * Overhaul * Reinstallation * Test * Troubleshooting & Service

Diesel:	125 hours	Tuition:	\$2,125.00	Textbook:	\$125.00¹
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¹ Same textbook as Level 1 (Engine)