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

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<th>Engine:</th>
<th>115 hours</th>
<th>Tuition:</th>
<th>$1,840.00</th>
<th>Textbook:</th>
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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

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<th>Steering &amp; Suspension:</th>
<th>67.5 hours</th>
<th>Tuition:</th>
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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

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<th>Brakes:</th>
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**GCA TRADES ACADEMY OFFICE:**
East West Business Center
718 N. Marine Corps Drive, Suite 201
Tamuning, Guam 96913-4425
(671) 647-4842/3
(671) 647-4866 (facsimile)

**BARRIGADA TRAINING FACILITY:**
196 East Route 8
Barrigada, Guam

Accredited Training Unit

May 2014
Level 4 (Electrical):

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

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

Diesel: 125 hours  Tuition: $2,125.00  Textbook: $125.00

\[1\] Same textbook as Level 1 (Engine)