

Automotive Technician Training Programme



Programme Overview

The Carmedis Automotive Technician Programme is designed to equip aspiring and experienced technicians with the technical knowledge, diagnostic skills, and practical experience required to inspect, diagnose, repair, and maintain modern petrol, diesel, hybrid, and electric vehicles.

The programme combines classroom instruction, hands-on workshop practice, real vehicle case studies, online learning, and competency-based assessments to produce technicians who are ready for today's automotive industry.

Programme Courses

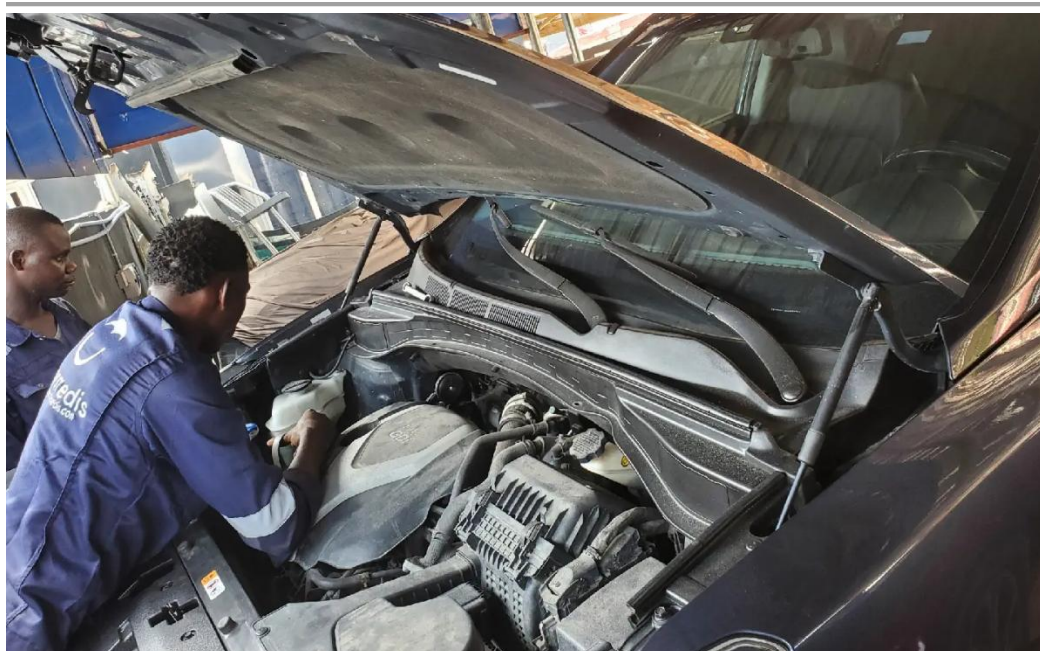
The programme consists of four specialist tracks:

1. Automotive Electrical Systems
2. Vehicle Inspection & Diagnostics
3. Mechanical Systems
4. Electric & Hybrid Vehicle Systems (EV Specialist)

Participants may enrol in an individual course

Hands-on activities include:

- Vehicle inspections
- Electrical troubleshooting
- Mechanical servicing and repairs
- Diagnostic scanning
- Component testing
- Workshop safety
- Live repair demonstrations
- Practical assessments



Course	Course Objective	Key Modules	Learning Outcomes	Delivery	Duration
Automotive Electrical Systems	Develop the skills required to diagnose, repair, and verify automotive electrical and electronic systems using professional tools and manufacturer-approved procedures.	• Electrical Fundamentals • Batteries & Starting Systems • Charging Systems • Vehicle Lighting & Body Electronics • Automotive Communication Networks (CAN, LIN, FlexRay, Ethernet) • Sensors & Actuators • Wiring Diagrams & Circuit Repair	• Diagnose electrical faults • Read and interpret wiring diagrams • Repair automotive wiring • Test charging and starting systems • Diagnose CAN Bus communication faults	Physical	4 Weeks
Vehicle	Train technicians to	• Vehicle Inspection	• Perform complete	Hybrid	3 Weeks

Inspection & Diagnostics	professionally inspect vehicles, identify faults accurately, analyse diagnostic data, and prepare comprehensive diagnostic reports using industry-standard diagnostic equipment.	Process• Digital Vehicle Inspection (DVI)• Professional Diagnostic Equipment (Launch X431 V PAD)• Diagnostic Trouble Codes (DTCs)• Live Data Analysis• Advanced Diagnostics• ADAS Systems• Professional Reporting	vehicle inspections• Operate professional diagnostic equipment• Analyse live vehicle data• Identify root causes of faults• Produce professional diagnostic reports	(Physical + Online)	
Mechanical Systems	Develop competency in servicing, maintaining, diagnosing, and repairing modern automotive mechanical systems according to industry best practices.	• Engine Fundamentals• Cooling Systems• Fuel Systems• Engine Performance• Transmission Systems• Suspension & Steering• Brake Systems• Air Conditioning Systems• Preventive Maintenance	• Diagnose mechanical faults• Service engines and transmissions• Repair braking and suspension systems• Perform preventive maintenance• Service automotive HVAC systems	Physical	6 Weeks
Electric & Hybrid Vehicle Systems (EV Specialist)	Prepare technicians to safely inspect, diagnose, maintain, and repair Battery Electric Vehicles (BEV), Hybrid Electric Vehicles (HEV), and Plug-in Hybrid Electric Vehicles (PHEV) using industry-standard tools and safety procedures.	• EV Fundamentals• High Voltage Safety• EV Battery Systems• Charging Systems• Electric Drive Systems• Thermal Management• EV Diagnostics• Battery Service & BMS• EV Software Programming & Calibration• EV Workshop Operations	• Work safely on high-voltage vehicles• Diagnose EV charging and battery faults• Analyse Battery Management System (BMS) data• Perform EV software updates and calibration• Service electric drivetrains and thermal systems	Online (Theory) or Hybrid (Physical + Online)	5 Weeks

Programme Information

- **Tuition Fee:** ₦550,000 per course
- **Intake Periods:** January, April, July and September
- **Certificate Awarded:** Carmedis Certified Specialist Certificate (per course)