



PERTECNCA'S

CAR MOTOR MECHANIC TRAINING BROCHURE



Practical training



Post training assistance

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CAR MOTOR MECHANIC TRAINING

The Car Motor Mechanic Training Program is designed to provide in-depth knowledge and hands-on experience in the maintenance, repair, and diagnostics of car engines and mechanical systems. The course covers both petrol and diesel engines, ensuring that participants gain the skills required to work in service centers, car workshops, or even establish their own repair business. Emphasizing practical experience, the program is ideal for anyone aspiring to become a proficient car motor mechanic.

What you'll learn?

- Understanding the basics of internal combustion engines (petrol and diesel).
- Diagnosing engine problems using modern diagnostic tools.
- Repair and maintenance of fuel systems, exhaust systems, and engine components.
- Hands-on skills in suspension, transmission, and braking systems.
- Working on electrical systems, including ignition and starting systems.
- Practical troubleshooting of cooling and lubrication systems.
- Car motor disassembly, repair, and reassembly.
- Safety procedures and best practices in automotive workshops.

Course summary:

The Car Motor Mechanic Training Program aims to transform beginners and enthusiasts into skilled automotive mechanics, providing a thorough understanding of car motor technology, including diagnostics, repair, and routine maintenance. The course combines theory with practical sessions to ensure learners are well-equipped to work in the automotive repair industry.

- Gain a complete understanding of car motor mechanics and systems.
- Hands-on experience with real-world car repair tasks.
- Learn to use advanced diagnostic tools and equipment.
- Acquire skills that are highly valued in the automotive industry.
- Certification that enhances job opportunities in car workshops, dealerships, or self-employment.

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Course syllabus:

Module 1: Introduction to Car Engine Technology

- Overview of petrol and diesel engines.
- Introduction to car motor components and systems.
- Workshop safety and tool handling techniques.
- Practical session: Basic car motor inspection.

Module 2: Engine Operation and Overhaul

- Internal combustion engine principles.
- Common car engine issues and diagnostics.
- Engine disassembly, repair, and reassembly.
- Practical session: Engine overhaul and reassembly.

Module 3: Electrical Systems and Diagnostics

- Introduction to car electrical systems (ignition, starter motor, and alternator).
- Diagnosing and repairing electrical faults.
- Practical session: Wiring and starter motor diagnostics.

Module 4: Transmission Systems

- Overview of manual and automatic transmission systems.
- Diagnosing transmission issues.
- Servicing clutch, gearbox, and drivetrain systems.
- Practical session: Transmission overhaul and repair.

Module 5: Suspension and Steering Systems

- Understanding car suspension systems and components.
- Diagnosing and repairing steering and suspension problems.
- Practical session: Suspension servicing and steering alignment.

Module 6: Braking Systems

- Servicing disc brakes, drum brakes, and ABS.
- Diagnosing brake system issues.
- Practical session: Brake pad replacement and ABS diagnostics.

Module 7: Cooling and Lubrication Systems

- Cooling system components: Radiators, thermostats, and coolant.
- Lubrication system maintenance: Oil pumps and filters.
- Practical session: Radiator repair and oil change procedures.

Module 8: Fuel Systems: Carburetor and Fuel Injection

- Overview of carburetor systems and fuel injection technology.
- Diagnosing and repairing fuel system issues.
- Practical session: Fuel injector cleaning and carburetor tuning.

Module 9: Exhaust and Emission Control

- Exhaust system components and emission regulations.
- Diagnosing and repairing exhaust systems.
- Practical session: Exhaust system replacement and catalytic converter repair.

Module 10: Diagnostics and Troubleshooting

- Using modern diagnostic tools (OBD, scanners).
- Troubleshooting engine and electrical faults.
- Practical session: Car diagnostics and problem-solving.

Module 11: Evaluation and Certification

- Comprehensive assessment of theoretical and practical knowledge.
- Written exams covering electric bike repair and maintenance.
- Practical exams involving diagnostic and repair tasks.
- Certification awarded upon successful course completion.
- Career guidance and industry opportunities.

Practical training:

- Engine Overhaul: Complete disassembly, repair, and reassembly of car engines.
- Electrical Systems: Diagnosing and fixing wiring, lighting, and starter motor repairs.
- Transmission Repair: Servicing both manual and automatic transmission systems.
- Suspension and Steering: Diagnosing and repairing steering and suspension issues.
- Braking Systems: Servicing disc brakes, ABS, and brake fluid systems.
- Cooling Systems: Repair and maintenance of radiators, hoses, and coolant systems.
- Fuel Injection Systems: Diagnosing and repairing modern fuel injection systems.
- Exhaust Systems: Repairing and maintaining car exhaust systems for optimal performance.

Career scope:

Upon completing the Car Motor Mechanic training course, graduates can explore career opportunities in various sectors, including:

- Car Mechanic in Dealerships or Workshops
- Engine Diagnostic Specialist
- Automotive Service Technician
- Transmission Mechanic
- Freelance Car Mechanic
- Engine Overhaul Specialist
- Auto Parts Consultant
- Service Center Manager
- Automotive Trainer
- Entrepreneur in Car Repair Business



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