



PERTECNCA'S

# CAR MECHANIC & SERVICE TRAINING BROCHURE



Practical training



Post training assistance

**CONTACT US**

[www.pertecnica.com](http://www.pertecnica.com)  
7842430123

# **CAR MECHANIC & SERVICE TRAINING**

The Car Mechanic & Service Training Program is a comprehensive course designed for aspiring automotive technicians who want to build a career in car repair, servicing, and diagnostics. This program provides in-depth training on the repair and maintenance of all essential car systems, covering both petrol and diesel engines, with a strong focus on practical skills required in real-world auto workshops.

## **What you'll learn?**

- Comprehensive understanding of car engine types (petrol and diesel).
- Diagnosing and repairing car electrical and mechanical systems.
- Maintenance and repair of brakes, suspension, and steering systems.
- Troubleshooting engine performance issues using modern tools.
- Performing routine car services, including oil changes and tire maintenance.
- Repairing and maintaining fuel systems and exhaust systems.
- Servicing transmission systems (manual and automatic).
- Using automotive diagnostic software and tools.

## **Course summary:**

This course focuses on building technical skills for car repair and maintenance through both theoretical knowledge and practical hands-on training. Key takeaways from the program include:

- **Comprehensive Understanding of Car Systems:** Learn how to diagnose, repair, and maintain critical car components.
- **Hands-On Practical Experience:** Gain real-world experience by working on various car systems in a workshop environment.
- **Diagnostic Mastery:** Learn to use advanced diagnostic tools and software to identify and fix issues efficiently.
- **Career-Ready Skills:** Excel as a car mechanic, whether in an auto repair shop, dealership, or self-owned business.
- **Industry-Relevant Training.**

**CONTACT US**

**[www.pertecnica.com](http://www.pertecnica.com)  
7842430123**

# Course syllabus:

## **Module 1: Introduction to Car Mechanics**

- Basics of car engines (petrol & diesel).
- Overview of car components and systems.
- Safety protocols in the workshop.
- Practical session: Car engine components inspection.

## **Module 2: Car Engine Overhaul and Maintenance**

- Car engine systems and functioning.
- Common engine problems and their causes.
- Overhauling car engines: step-by-step.
- Practical session: Engine disassembly and reassembly.

## **Module 3: Electrical System Repair and Diagnostics**

- Overview of car electrical systems.
- Diagnosing electrical faults (ignition, starter, lights).
- Repairing wiring and circuit issues.
- Practical session: Car electrical system diagnostics.

## **Module 4: Transmission Systems (Manual & Automatic)**

- Understanding manual and automatic transmissions.
- Transmission servicing and problem diagnostics.
- Repairing clutches, gearboxes, and drivetrains.
- Practical session: Transmission repair and adjustment.

## **Module 5: Suspension and Steering System Maintenance**

- Types of car suspension systems.
- Diagnosing and repairing suspension and steering issues.
- Practical session: Wheel alignment and suspension adjustment.

## **Module 6: Brake Systems**

- Types of braking systems (disc, drum, ABS).
- Servicing and repairing braking components.
- Practical session: Brake pad replacement and brake fluid servicing.

## **Module 7: Cooling and Lubrication Systems**

- Cooling system components: Radiators, water pumps, and fans.
- Oil lubrication system and maintenance.
- Practical session: Coolant system flush and oil change.

## **Module 8: Fuel System Servicing**

- Overview of carburetor and fuel injection systems.
- Diagnosing and fixing fuel system issues.
- Practical session: Cleaning and tuning fuel injectors.

## **Module 9: Exhaust and Emission Control Systems**

- Understanding the exhaust system and emission regulations.
- Repairing and replacing exhaust components.
- Practical session: Exhaust pipe and muffler repair.

## **Module 10: Routine Maintenance and Servicing**

- Performing oil changes, filter replacement, and tire rotation.
- Inspecting car systems for routine maintenance.
- Practical session: Complete car service checklist.

## **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 Servicing and Repair: Hands-on practice in repairing petrol and diesel engines.
- Brake System Maintenance: Servicing disc brakes, drum brakes, and ABS systems.
- Transmission Servicing: Repairing manual and automatic transmissions.
- Suspension & Steering Systems: Diagnosing and fixing issues in suspension and steering.
- Electrical System Repair: Practical diagnostics of ignition, lighting, and wiring systems.
- Engine Diagnostics: Using advanced diagnostic tools to troubleshoot engine issues.
- Cooling & Lubrication Systems: Repairing radiators, cooling fans, and performing oil changes.
- Fuel System Repair: Servicing carburetors, fuel injectors, and fuel lines.

## **Career scope:**

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

- Automotive Technician in Car Workshops
- Car Mechanic in Dealerships
- Vehicle Diagnostic Specialist
- Freelance Car Repair Technician
- Engine Overhaul Technician
- Transmission Repair Specialist
- Service Center Supervisor
- Self-Employed Car Mechanic
- Technical Consultant in Car Manufacturing
- Automotive Trainer/Instructor

