



PERTECNCA'S

# CAR REPAIR & ELECTRICIAN TRAINING BROCHURE



Practical training



Post training assistance

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# **CAR REPAIR & ELECTRICIAN TRAINING**

The Car Repair & Electrician Training Program combines two vital skills—automotive repair and electrical system diagnostics—into one comprehensive course. Designed for individuals looking to enter the automotive industry with a specialized skill set, this program offers hands-on experience in both mechanical and electrical repairs. You'll learn everything from engine repair to car wiring, lighting, ignition systems, and advanced electrical diagnostics, equipping you with the expertise to handle complex car issues.

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

- Basics of car mechanical and electrical systems.
- Diagnosing and repairing electrical faults in car wiring and ignition.
- Servicing and maintaining engine components.
- Working with batteries, alternators, and starters.
- Understanding car lighting and safety systems.
- Diagnosing engine issues using advanced diagnostic tools.
- Repairing fuel, cooling, and transmission systems.
- Hands-on practice with modern automotive software.

## **Course summary:**

This course merges the disciplines of car repair and automotive electrical systems, providing a dual skill set that's highly in demand. Key takeaways include:

- **Comprehensive Mechanical & Electrical Skills:** You'll learn both car repair techniques and the electrical diagnostics skills necessary to service modern vehicles.
- **Hands-On Training:** Real-world experience in a workshop environment helps you put theoretical knowledge into practice.
- **Career Opportunities:** The course prepares you for roles in both automotive repair and electrical servicing, giving you a wide range of job prospects.
- **Advanced Diagnostic Training:** You'll use cutting-edge tools & software for diagnosing & fixing complex automotive electrical systems.

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# Course syllabus:

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

- Overview of automotive mechanical and electrical systems.
- Workshop safety procedures.
- Practical session: Identifying car parts and tools.

## **Module 2: Car Engine Mechanics**

- Petrol and diesel engine components.
- Servicing and maintaining car engines.
- Practical session: Engine disassembly and assembly.

## **Module 3: Electrical Systems & Diagnostics**

- Car wiring and electrical circuits.
- Diagnosing electrical faults.
- Practical session: Wiring repair and diagnostics.

## **Module 4: Battery & Ignition Systems**

- Understanding battery and ignition systems.
- Troubleshooting starting issues.
- Practical session: Battery and alternator maintenance.

## **Module 5: Transmission Systems**

- Manual and automatic transmission repair.
- Clutch and gear system servicing.
- Practical session: Gearbox maintenance.

## **Module 6: Car Lighting & Safety Systems**

- Repairing lights, indicators, and dashboard systems.
- Servicing electrical safety systems like airbags and ABS.
- Practical session: Car lighting repairs.

## **Module 7: Brake System Repair**

- Servicing disc, drum, and ABS brake systems.
- Fluid change and brake pad replacement.
- Practical session: Brake system maintenance.

## **Module 8: Cooling & Lubrication Systems**

- Radiator, water pump, and oil system repair.
- Diagnosing overheating issues.
- Practical session: Cooling system maintenance.

## **Module 9: Diagnostic Tools & Software**

- Using advanced diagnostic equipment for engine and electrical systems.
- Automotive software for troubleshooting.
- Practical session: Real-time diagnostics.

## **Module 10: Routine Car Maintenance**

- Oil changes, filter replacement, and tire services.
- Full car maintenance checks.
- Practical session: Conducting a complete car service.

## **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:**

- Wiring system diagnostics: Finding and repairing wiring faults.
- Ignition and battery servicing: Troubleshooting electrical starting issues.
- Engine repair: Overhauling petrol and diesel engines.
- Transmission system repair: Manual and automatic gearbox servicing.
- Brake system servicing: Disc, drum, and ABS brake systems.
- Car lighting and electrical repairs: Fixing lights, indicators, and dashboards.
- Engine diagnostics: Using tools to identify performance issues.
- Electrical safety systems: Servicing airbag and ABS systems.

## **Career scope:**

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

- Automotive Mechanic
- Auto Electrician
- Car Electrical Diagnostics Specialist
- Service Technician at Dealerships
- Engine and Electrical Repair Technician
- Car Maintenance Consultant
- Freelance Mechanic/Electrician
- Workshop Manager
- Mobile Car Repair Service Provider
- Technical Advisor in Automotive Repair Centers



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