



PERTECNCA'S

# CAR TRANSMISSION & GEAR BOX REPAIR TRAINING BROCHURE



Practical training



Post training assistance

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# **CAR TRANSMISSION & GEAR BOX REPAIR TRAINING**

The Car Transmission and Gearbox Repair Training course is designed for individuals looking to gain specialized knowledge in the diagnosis, repair, and maintenance of car transmission systems and gearboxes. This hands-on training focuses on both manual and automatic transmissions, providing participants with the technical skills needed to repair and maintain different types of transmission systems.

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

- Fundamentals of car transmission systems (manual and automatic).
- Diagnosing common transmission issues using diagnostic tools.
- Repairing and servicing manual and automatic gearboxes.
- Replacing and maintaining transmission fluid and filters.
- Identifying and fixing gear slippage and transmission noise.
- Disassembling and reassembling transmission systems.
- Adjusting clutch mechanisms and transmission linkages.
- Testing transmission system performance post-repair.

## **Course summary:**

This comprehensive training course equips participants with in-depth knowledge and hands-on skills in the diagnosis, repair, and maintenance of both manual and automatic transmission systems. Through practical experience, participants will learn how to service, repair, and troubleshoot a wide variety of transmission-related issues in vehicles, preparing them for careers as specialized automotive technicians.

## **Key Takeaways:**

- Learn the fundamentals of manual and automatic transmission systems.
- Master diagnostic tools and techniques for transmission repair.
- Gain practical hands-on experience in servicing gearboxes.
- Understand clutch systems and how to diagnose and fix common issues.
- Learn how to perform transmission fluid and filter replacement.
- Develop skills in testing and evaluating transmission performance.

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# Course syllabus:

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

- Overview of manual and automatic transmissions.
- Key components and their functions.
- Basic safety protocols in repair.

## **Module 2: Manual Transmission Diagnosis**

- Understanding gear ratios and sync.
- Identifying mechanical issues in manual systems.
- Practical: Repairing manual gearboxes.

## **Module 3: Automatic Transmission Diagnosis**

- Torque converters and planetary gears.
- Diagnosing automatic transmission faults.
- Practical: Servicing automatic gearboxes.

## **Module 4: Clutch Systems**

- Troubleshooting and adjusting clutch issues.
- Clutch plate replacement and repairs.
- Practical: Repairing clutch linkages.

## **Module 5: Transmission Fluid & Filter Replacement**

- Role of fluids in transmission systems.
- Fluid and filter replacement techniques.
- Practical: Servicing fluid-related issues.

## **Module 6: Gear Shift Mechanisms**

- Diagnosing issues in gear shifting.
- Servicing shift mechanisms and linkages.
- Practical: Adjusting gear shifting mechanisms.

## **Module 7: Transmission Overhaul**

- Complete overhaul of damaged transmissions.
- Replacing gears, seals, and bearings.
- Practical: Reassembling and testing the system.

## **Module 8: Advanced Transmission Issues**

- Identifying advanced transmission problems.
- Using diagnostic tools for control module issues.
- Practical: Repairing advanced electronic transmission issues.

## **Module 9: Performance Testing & Troubleshooting**

- Post-repair testing methods.
- Fine-tuning and adjustments.
- Practical: Road testing and performance evaluation.

## **Module 10: Customer Service & Professionalism**

- Communicating transmission problems to clients.
- Professional standards in service and repair.
- Practical: Customer interaction scenarios.

## **Module 11: Evaluation & 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:**

- Disassembling manual and automatic gearboxes.
- Repairing clutch and transmission linkages.
- Diagnosing transmission noise and vibration issues.
- Replacing damaged transmission components.
- Testing transmission systems post-repair.
- Using diagnostic tools for transmission control issues.
- Fluid and filter replacement techniques.
- Road testing repaired vehicles for quality assurance.

## **Career scope:**

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

- Transmission technician at auto repair shops.
- Gearbox repair specialist in vehicle maintenance centers.
- Automotive technician in dealerships.
- Transmission system consultant.
- Independent transmission repair service provider.
- Technician in fleet management services.
- Jobs in automotive manufacturing units.
- Clutch and gear system maintenance expert.
- Specialist in transmission system retrofitting.
- Entrepreneur in the automotive repair industry.

