



PERTECNCA'S

TWO WHEELER REPAIR & MAINTENANCE TRAINING BROCHURE



Practical training



Post training assistance

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TWO WHEELER REPAIR & MAINTENANCE TRAINING

The Two-Wheeler Repair and Maintenance Training Program is a specialized course designed to provide participants with the essential skills and knowledge needed to maintain and repair two-wheeled vehicles, including motorcycles, scooters, and mopeds. This comprehensive training covers everything from routine maintenance tasks to complex repair procedures, ensuring that participants are fully equipped to handle a wide range of issues commonly encountered in two-wheeler vehicles.

What you'll learn?

- Basics of two-wheeler mechanics and engine functionality.
- Techniques for diagnosing and troubleshooting common issues.
- Routine maintenance practices (oil changes, brake adjustments, etc.).
- Engine repair and overhaul processes for two-wheelers.
- Electrical system diagnostics and repair.
- Fuel system maintenance and repair (carburetors, fuel injection).
- Understanding and repairing transmission and drivetrain systems.
- Best practices for safety inspections and road testing.

Course summary:

The Two-Wheeler Repair and Maintenance Training Program offers in-depth knowledge and practical experience in the repair and maintenance of two-wheelers. Participants will learn how to diagnose problems, perform repairs, and conduct routine maintenance on a variety of two-wheeled vehicles. This program is ideal for individuals looking to pursue a career in the automotive repair industry or for those who wish to enhance their skills in two-wheeler maintenance.

Key Takeaways:

- Mastery of two-wheeler repair and maintenance techniques.
- Ability to perform comprehensive diagnostics and repairs.
- Proficiency in conducting safety inspections and road tests.
- Preparation for a career as a two-wheeler mechanic or technician.

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Course syllabus:

Module 1: Introduction to Two-Wheeler Mechanics

- Overview of two-wheeler types and their components.
- Understanding the basic operation of two-wheeler engines.
- Introduction to essential tools and equipment.
- Practical session: Familiarization with two-wheeler parts and tools.

Module 2: Two-Wheeler Engine Fundamentals

- Internal combustion engine principles specific to two-wheelers.
- Types of two-wheeler engines (single-cylinder, multi-cylinder).
- Engine cooling systems (air-cooled, liquid-cooled).
- Practical session: Engine disassembly and inspection.

Module 3: Transmission and Drivetrain Systems

- Overview of two-wheeler transmissions (manual, automatic).
- Chain, belt, and shaft drive systems.
- Maintenance and repair of transmission components.
- Practical session: Servicing a two-wheeler transmission.

Module 4: Electrical Systems in Two-Wheelers

- Two-wheeler electrical system overview (ignition, lighting, battery).
- Diagnosing and repairing electrical faults.
- Battery testing, maintenance, and replacement.
- Practical session: Electrical system troubleshooting and repair.

Module 5: Fuel Systems and Carburetors

- Understanding two-wheeler fuel systems (carbureted, fuel-injected).
- Carburetor tuning and maintenance techniques.
- Fuel injection system diagnostics and repair.
- Practical session: Servicing carburetors and fuel systems.

Module 6: Braking Systems and Suspension

- Types of braking systems used in two-wheelers (disc, drum).
- Maintenance and repair of brake components.
- Overview of suspension systems and their maintenance.
- Practical session: Brake servicing and suspension adjustment.

Module 7: Exhaust Systems and Emissions Control

- Exhaust system components and their functions in two-wheelers.
- Emissions control regulations and systems.
- Maintenance and repair of exhaust systems.
- Practical session: Inspection and repair of exhaust systems.

Module 8: Safety Inspections and Road Testing

- Conducting comprehensive safety inspections on two-wheelers.
- Identifying and correcting potential safety hazards.
- Performing road tests to ensure repair quality.
- Practical session: Full safety inspection and road testing.

Module 9: Advanced Engine Repair

- Techniques for two-wheeler engine overhauls.
- Servicing cylinder heads, valve trains, and pistons.
- Practical session: Complete engine overhaul of a two-wheeler.

Module 10: Customization and Performance Tuning

- Customization techniques for two-wheelers (aesthetics, performance).
- Engine performance tuning and component upgrades.
- Practical session: Customizing and tuning a two-wheeler.

Module 11: Evaluation and Certification

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

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Practical training:

- **Basic Maintenance:** Performing routine oil changes, brake adjustments, and tire replacements.
- **Engine Diagnostics:** Identifying and repairing common engine issues in two-wheelers.
- **Transmission Repair:** Servicing and repairing two-wheeler transmissions and clutch systems.
- **Electrical Troubleshooting:** Diagnosing and fixing electrical faults in two-wheeled vehicles.
- **Fuel System Maintenance:** Servicing carburetors and fuel injection systems.
- **Suspension and Steering:** Inspecting and repairing suspension and steering components.
- **Exhaust System:** Repairing and maintaining exhaust systems.
- **Road Testing:** Conducting post-repair road tests to ensure safety and performance.

Career scope:

Upon completing the Two wheeler repair & maintenance training course, graduates can explore career opportunities in various sectors, including:

- Two-Wheeler Mechanic
- Automotive Technician
- Service Advisor for Two-Wheelers
- Workshop Manager
- Two-Wheeler Repair Shop Owner
- Motorcycle and Scooter Technician
- Two-Wheeler Service Specialist
- Sales and Service Consultant
- Fleet Maintenance Technician
- Independent Service Provider



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