



PERTECNCA'S

# MOTORCYCLE MECHANIC TRAINING BROCHURE



Practical training



Post training assistance

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# **MOTORCYCLE MECHANIC TRAINING**

The Motorcycle Mechanic Training Program is a comprehensive course designed to equip participants with the knowledge and hands-on skills necessary to service, repair, and maintain motorcycles. The course covers everything from basic maintenance tasks to complex engine repairs, ensuring that participants can handle a wide range of mechanical issues found in various motorcycle models. With a focus on practical experience, this training program prepares individuals for a successful career in the motorcycle repair industry.

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

- Fundamentals of motorcycle mechanics and engine operation.
- Detailed overview of motorcycle systems (engine, transmission, electrical).
- Techniques for diagnosing and troubleshooting common motorcycle issues.
- Step-by-step procedures for routine motorcycle maintenance.
- Repair and overhaul of motorcycle engines and transmissions.
- Electrical system diagnostics and repair (ignition, lighting, etc.).
- Understanding and maintaining fuel systems (carburetors, fuel injection).
- Best practices for motorcycle safety inspections and road tests.

## **Course summary:**

The Motorcycle Mechanic Training Program is tailored for those passionate about motorcycles and eager to build a career in motorcycle repair and maintenance. This course provides in-depth knowledge and hands-on experience with various motorcycle systems, including engines, transmissions, electrical systems, and more. Participants will learn to diagnose, repair, and maintain motorcycles, ensuring they are road-ready and safe for riders.

## **Key Takeaways:**

- Comprehensive understanding of motorcycle mechanics.
- Ability to diagnose and repair a wide range of motorcycle issues.
- Proficiency in performing regular maintenance and safety inspections.
- Preparation for a career as a professional motorcycle mechanic.

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# Course syllabus:

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

- Overview of motorcycle types and designs.
- Understanding the basic components of a motorcycle.
- Introduction to motorcycle tools and equipment.
- Practical session: Familiarization with motorcycle parts and tools.

## **Module 2: Motorcycle Engine Fundamentals**

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

## **Module 3: Motorcycle Transmission and Drivetrain**

- Overview of motorcycle transmissions (manual, automatic).
- Understanding chain, belt, and shaft drives.
- Transmission maintenance and repair procedures.
- Practical session: Servicing a motorcycle transmission.

## **Module 4: Electrical Systems in Motorcycles**

- Motorcycle electrical systems overview (ignition, charging, lighting).
- Diagnosing and repairing electrical faults.
- Battery maintenance and replacement.
- Practical session: Troubleshooting motorcycle electrical issues.

## **Module 5: Fuel Systems and Carburetors**

- Overview of motorcycle fuel systems (carbureted, fuel-injected).
- Carburetor tuning and maintenance.
- Fuel injection diagnostics and repair.
- Practical session: Servicing and tuning motorcycle carburetors.

## **Module 6: Braking Systems and Suspension**

- Types of motorcycle braking systems (disc, drum).
- Brake system maintenance and repair.
- Overview of motorcycle suspension systems.
- Practical session: Servicing brakes and adjusting suspension.

## **Module 7: Exhaust Systems and Emissions Control**

- Motorcycle exhaust system components and functions.
- Emissions control systems and regulations.
- Repair and maintenance of exhaust systems.
- Practical session: Inspecting and repairing a motorcycle exhaust system.

## **Module 8: Safety Inspections and Road Testing**

- Conducting comprehensive motorcycle safety inspections.
- Identifying potential safety hazards.
- Performing road tests to ensure repair quality.
- Practical session: Performing a full safety inspection and road test.

## **Module 9: Advanced Engine Repair**

- Engine overhaul techniques for motorcycles.
- Cylinder head and valve train service.
- Crankshaft and piston repairs.
- Practical session: Overhauling a motorcycle engine.

## **Module 10: Customization and Performance Tuning**

- Customizing motorcycles for performance and aesthetics.
- Upgrading engine components and tuning for performance.
- Practical session: Performance tuning and customization of a motorcycle.

## **Module 11: Diagnostic Techniques**

- Use of Diagnostic Tools (Multimeter, Compression Tester)
- Troubleshooting Common Vehicle Problems
- Electrical and Mechanical Diagnosis
- Interpretation of Diagnostic Trouble Codes (DTCs)

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## **Practical training:**

- **Basic Motorcycle Maintenance:** Performing oil changes, brake adjustments, and tire replacements.
- **Engine Diagnostics:** Identifying engine problems and performing repairs.
- **Transmission Repair:** Overhauling motorcycle transmissions and clutch systems.
- **Electrical System Troubleshooting:** Diagnosing and repairing electrical faults.
- **Fuel System Maintenance:** Servicing carburetors and fuel injection systems.
- **Suspension and Steering:** Inspecting and repairing motorcycle suspension and steering systems.
- **Exhaust and Emissions:** Repairing and maintaining exhaust systems and emissions controls.
- **Road Testing:** Conducting post-repair road tests to ensure motorcycle safety and performance.

## **Career scope:**

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

- Motorcycle Mechanic
- Motorcycle Technician
- Service Advisor (Motorcycles)
- Motorcycle Repair Shop Owner
- Motorcycle Parts Specialist
- Race Team Mechanic
- Motorcycle Service Manager
- Custom Motorcycle Builder
- Motorcycle Inspector
- Motorcycle Restoration Specialist



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