



PERTECNCA'S

# SCOOTER & BIKE MECHANIC TRAINING BROCHURE



Practical training



Post training assistance

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# **SCOOTER & BIKE MECHANIC TRAINING**

Set up your career with our Scooter and Bike Mechanic training program. This course is designed to equip you with the essential skills and knowledge needed to service, repair, and maintain various types of scooters and motorcycles. As a Scooter and Bike Mechanic, you will learn about the intricacies of two-wheeler systems, components, and techniques necessary for ensuring their optimal performance and longevity.

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

- Fundamentals of scooter and bike systems
- Engine tuning and maintenance
- Brake system servicing and repair
- Electrical system diagnosis and repair
- Tire and wheel maintenance and replacement
- Suspension system inspection and repair
- Fuel system maintenance and repair
- Safety practices for working with two-wheelers
- Use of tools and equipment for two-wheeler maintenance
- Reading and interpreting technical manuals and diagrams

## **Course summary:**

Our Scooter and Bike Mechanic training course provides comprehensive training on the maintenance, repair, and servicing of various scooters and motorcycles. You will acquire in-depth knowledge and practical skills to ensure two-wheelers operate efficiently and reliably. The course emphasizes modern repair techniques and the use of advanced tools to prepare you for a successful career as a Scooter and Bike Mechanic.

- Detailed training on different types of scooters and motorcycles
- Effective maintenance and repair techniques for two-wheelers
- Practical knowledge of two-wheeler components and functions
- Insights into enhancing the performance and efficiency of scooters and bikes
- Understanding the latest technologies used in modern two-wheelers

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# Course syllabus:

## **Module 1: Introduction to Scooters and Bikes**

- Overview of Scooters and Motorcycles
- Roles and Responsibilities of a Scooter and Bike Mechanic
- Types of Scooters and Motorcycles (Gasoline, Electric)
- Basic Operating Principles of Two-Wheeled Vehicles

## **Module 2: Engine Systems**

- Engine Components and Operation (2-stroke vs. 4-stroke Engines)
- Carburetor and Fuel Injection Systems
- Ignition Systems (CDI, Points Ignition)
- Engine Lubrication and Cooling

## **Module 3: Electrical Systems**

- Battery Systems and Maintenance
- Starting Systems (Kick Start, Electric Start)
- Charging Systems and Alternators
- Lighting Systems and Controls

## **Module 4: Fuel Systems**

- Fuel Tank and Fuel Lines
- Carburetor Cleaning and Adjustment
- Fuel Injection System Components
- Fuel Filter and Fuel Pump Maintenance

## **Module 5: Suspension and Steering Systems**

- Types of Suspension Systems (Telescopic, Monoshock)
- Front Fork Inspection and Maintenance
- Steering Mechanisms and Handlebar Controls
- Wheel Alignment and Balancing

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## **Module 6: Brake Systems**

- Brake Types (Disc Brakes, Drum Brakes)
- Brake Components and Operation
- Brake Fluid Replacement and Bleeding
- ABS (Anti-lock Braking System) and CBS (Combined Braking System)

## **Module 7: Drive Train Systems**

- Types of Transmissions (Manual, Automatic)
- Clutch Operation and Adjustment
- Drive Chain and Sprocket Maintenance
- Belt Drive Systems (if applicable)

## **Module 8: Tire and Wheel Systems**

- Tire Types and Inspection
- Wheel Rim Inspection and Maintenance
- Tire Mounting and Balancing
- Tubeless Tire Repair Techniques

## **Module 9: Exhaust Systems**

- Exhaust Pipe and Muffler Inspection
- Exhaust System Cleaning and Maintenance
- Catalytic Converter Inspection (if applicable)
- Noise and Emission Control

## **Module 10: Vehicle Maintenance Practices**

- Routine Maintenance Tasks (Oil Changes, Filter Replacements)
- Spark Plug Inspection and Replacement
- Air Filter Cleaning and Replacement
- Fluid Checks and Top-ups (Coolant, Brake Fluid)

## **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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## **Module 12: Safety Practices in Scooter and Bike Repair**

- Personal Protective Equipment (PPE)
- Safe Lifting and Support Techniques
- Hazardous Materials Handling (Oil, Coolants)
- Fire Safety and Prevention

## **Module 13: Customer Service and Professionalism**

- Effective Communication with Clients
- Estimating Costs and Providing Quotations
- Managing Client Expectations and Satisfaction
- Professional Ethics and Conduct

## **Module 14: Practical Training and Hands-On Experience**

- Hands-On Vehicle Maintenance and Repair Exercises
- Simulation of Vehicle Repair Scenarios
- Field Visits to Motorcycle Repair Shops
- Application of Maintenance Techniques in Lab Settings

## **Module 15: Field Visits and Case Studies**

- Visits to Operational Motorcycle Repair Shops
- Case Studies of Complex Vehicle Repair Projects
- Interaction with Industry Experts and Professionals
- Real-World Applications and Innovations

## **Evaluation and Certification**

- Written and Practical Examinations
- Continuous Assessment through Assignments and Projects
- Certification upon Successful Completion

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### **Practical training:**

- Hands-on experience in servicing various types of scooters and motorcycles
- Practical training in diagnosing and repairing common issues
- Real-time projects on engine tuning and maintenance
- Workshops on reading and interpreting technical diagrams and manuals
- Case studies on successful two-wheeler repairs and maintenance
- Field visits to automotive service centers
- Training in the use of specialized tools and equipment

### **Career scope:**

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

- Two-wheeler repair and maintenance shops
- Authorized service centers for scooter and bike brands
- Motorcycle dealerships and showrooms
- Automotive manufacturing companies
- Racing teams and custom bike builders
- Delivery and logistics companies with two-wheeler fleets
- Rental and leasing companies for scooters and bikes
- Educational institutions offering technical courses
- Scooter and bike accessory and parts suppliers
- Self-employment opportunities as freelance mechanics



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