



PERTECNCA'S

# INDUSTRIAL MOTOR REPAIR TRAINING BROCHURE



Practical training



Post training assistance

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# **WINDING & REWINDING TRAINING**

The Industrial Motor Repair Training Program is designed for individuals seeking to specialize in the repair and maintenance of industrial motors used across various sectors. This course covers in-depth knowledge of different types of industrial motors, diagnostic techniques, repair processes, and preventive maintenance strategies. Participants will gain hands-on experience to become proficient in troubleshooting and repairing motors, ensuring their efficient operation in industrial environments.

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

- Fundamentals of industrial motor operation.
- Types and classifications of industrial motors.
- Common motor faults and troubleshooting techniques.
- Disassembly and reassembly of industrial motors.
- Techniques for motor winding and rewinding.
- Diagnosing and repairing motor bearings and seals.
- Safety protocols in motor repair and maintenance.
- Preventive maintenance strategies for industrial motors.

## **Course summary:**

This training program provides a comprehensive understanding of industrial motor repair. Trainees will learn to diagnose motor issues, perform essential repairs, and implement preventive maintenance practices to ensure the longevity and reliability of industrial motors. The course is tailored for individuals aiming to work in maintenance departments of manufacturing plants, utility companies, and other industrial settings where motor reliability is crucial.

## **Key Takeaways:**

- Expertise in diagnosing and repairing industrial motors.
- Practical skills in motor disassembly, repair, and reassembly.
- Knowledge of advanced troubleshooting and maintenance techniques.
- Preparation for a career in industrial motor maintenance and repair.

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# Course syllabus:

## **Module 1: Introduction to Industrial Motors**

- Basics of industrial motor operation.
- Overview of AC and DC motors used in industries.
- Understanding motor components and functions.
- Practical session: Identifying different types of industrial motors.

## **Module 2: Diagnostic Techniques for Motor Repair**

- Common issues in industrial motors and their symptoms.
- Diagnostic tools and techniques.
- Methods for identifying electrical and mechanical faults.
- Practical session: Using diagnostic tools to assess motor conditions.

## **Module 3: Disassembly and Inspection**

- Safe disassembly of industrial motors.
- Inspecting motor components for wear and damage.
- Techniques for cleaning and preparing motors for repair.
- Practical session: Disassembling and inspecting an industrial motor.

## **Module 4: Winding and Rewinding**

- Overview of motor windings and common winding faults.
- Techniques for rewinding industrial motors.
- Insulation and varnishing practices in motor rewinding.
- Practical session: Rewinding a large industrial motor.

## **Module 5: Bearing and Seal Repair**

- Types of bearings and seals used in industrial motors.
- Diagnosing bearing and seal issues.
- Techniques for replacing bearings and seals.
- Practical session: Repairing and replacing motor bearings and seals.

## **Module 6: Electrical Repair Techniques**

- Repairing electrical faults in motor circuits.
- Techniques for soldering and splicing motor wiring.
- Replacing faulty components such as capacitors and resistors.
- Practical session: Electrical repairs on an industrial motor.

## **Module 7: Mechanical Repair Techniques**

- Identifying and repairing mechanical issues in motors.
- Techniques for aligning shafts and balancing rotors.
- Repairing or replacing damaged motor housings.
- Practical session: Mechanical repairs on an industrial motor.

## **Module 8: Reassembly and Testing**

- Best practices for motor reassembly.
- Testing motors post-repair for performance and safety.
- Troubleshooting any issues that arise during testing.
- Practical session: Reassembling and testing an industrial motor.

## **Module 9: Preventive Maintenance Strategies**

- Importance of preventive maintenance in industrial motors.
- Developing and implementing maintenance schedules.
- Techniques for monitoring motor performance.
- Practical session: Creating a preventive maintenance plan for a motor system.

## **Module 10: Advanced Troubleshooting**

- Importance of preventive maintenance for motor longevity.
- Techniques for maintaining winding integrity.
- Scheduling and performing routine maintenance.
- Practical session: Preventive maintenance tasks on motors.

## **Module 11: Evaluation and Certification**

- Comprehensive assessment of theoretical knowledge and practical skills.
- Written exams covering automotive mechanics principles and procedures.
- Practical exams on diagnosing, maintaining, and repairing motor vehicles.
- Certification upon successful completion of the course.
- Opportunities for advanced training in specialized automotive systems.

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## **Practical training:**

- Motor Diagnostics: Hands-on practice in diagnosing motor faults.
- Disassembly & Inspection: Techniques for safe disassembly and inspection.
- Bearing Replacement: Practical sessions on replacing motor bearings.
- Winding & Rewinding: Step-by-step guide to motor winding and rewinding.
- Seal Repair: Techniques for repairing motor seals.
- Testing & Validation: Testing motors post-repair to ensure optimal performance.
- On-Site Repairs: Real-world projects involving on-site motor repairs.
- Preventive Maintenance: Implementing maintenance plans in an industrial setting.

## **Career scope:**

Upon completing the Industrial motor repair training course, graduates can explore career opportunities in various sectors, including:

- Industrial Motor Repair Technician
- Maintenance Engineer
- Motor Rewinding Specialist
- Industrial Electrician
- Field Service Technician
- Plant Maintenance Supervisor
- Motor Testing Engineer
- Technical Support Specialist
- Quality Assurance Technician
- Workshop Manager



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