



PERTECNCA'S

FUEL SYSTEM REPAIR

TRAINING

BROCHURE



Practical training



Post training assistance

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www.pertecnica.com
7842430123

Fuel System Repair Training

The Fuel System Repair Training Program is crafted to provide in-depth knowledge and hands-on skills in diagnosing, repairing, and maintaining fuel systems in various types of vehicles and machinery. This course is ideal for automotive technicians, mechanics, and individuals interested in specializing in fuel systems. Participants will gain expertise in working with both traditional and modern fuel systems, including gasoline, diesel, and alternative fuels.

What you'll learn?

- Basics of fuel system components and functions.
- Techniques for diagnosing fuel system issues.
- Repair and replacement of fuel system components.
- Calibration and adjustment of fuel injection systems.
- Handling and repairing fuel pumps, injectors, and filters.
- Working with electronic fuel management systems.
- Understanding emissions control and its impact on fuel systems.
- Safety protocols in fuel system repair.

Course summary:

This specialized training program focuses on the essential aspects of fuel system repair. Participants will learn about the construction and operation of fuel systems, identify common issues, and perform repairs. The course covers a range of fuel systems, from traditional carbureted engines to modern electronically controlled fuel injection systems. Through a combination of classroom learning and practical workshops, participants will be well-prepared for careers in automotive and machinery repair.

Key Takeaways:

- Expertise in diagnosing and repairing various fuel system components.
- Knowledge of modern fuel injection systems and electronic fuel management.
- Practical experience in fuel system calibration and adjustment.
- Preparedness for careers as fuel system repair technicians or automotive mechanics.

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Course syllabus:

Module 1: Introduction to Fuel Systems

- Overview of fuel system types: gasoline, diesel, and alternative fuels.
- Basic principles of fuel system operation.
- Introduction to fuel system components: pumps, injectors, filters, etc.
- Safety considerations in fuel system repair and maintenance.

Module 2: Diagnosing Fuel System Issues

- Techniques for diagnosing common fuel system problems: leaks, blockages, and failures.
- Use of diagnostic tools for accurate problem identification.
- Case studies on real-world fuel system issues.
- Practical session: diagnosing fuel system problems in different vehicles.

Module 3: Repairing Fuel System Components

- Repair and replacement techniques for fuel pumps, injectors, and filters.
- Use of specialized tools for fuel system repair tasks.
- Practical session: repairing and replacing fuel system components.
- Project: addressing common wear and tear in fuel systems.

Module 4: Fuel Injection Systems

- Overview of fuel injection system types: mechanical and electronic.
- Techniques for calibrating and adjusting fuel injection systems.
- Practical session: working with various fuel injection systems.
- Project: tuning fuel injection systems for optimal performance.

Module 5: Emissions Control and Fuel Systems

- Understanding the impact of emissions control on fuel systems.
- Techniques for repairing and maintaining emissions-related fuel system components.
- Practical session: addressing emissions-related issues in fuel systems.
- Case studies on successful emissions control repairs.

Module 6: Electronic Fuel Management Systems

- Overview of electronic fuel management systems and their operation.
- Techniques for diagnosing and repairing electronic fuel systems.
- Practical session: working with electronic control units (ECUs) in fuel systems.
- Project: troubleshooting and repairing electronic fuel management systems.

Module 7: Routine Fuel System Maintenance

- Importance of regular maintenance in fuel system longevity.
- Techniques for performing routine maintenance tasks: filter changes, pump inspections.
- Practical session: conducting maintenance on various fuel system types.
- Case studies on the impact of maintenance on fuel system performance.

Module 8: Advanced Fuel System Repair Techniques

- Challenges in modern fuel systems: direct injection, turbocharged systems, and alternative fuels.
- Advanced techniques for repairing complex fuel systems.
- Use of advanced diagnostic tools in fuel system repairs.
- Practical session: advanced repair work on modern fuel systems.

Module 9: Practical Fieldwork and Real-World Projects

- Hands-on project: performing repairs on a range of vehicles and machinery.
- Fieldwork: participation in fuel system repair projects in automotive repair shops.
- Real-world scenarios: handling repair challenges in live environments.
- Collaboration with industry professionals on field repair projects.

Module 10: Evaluation and Certification

- Comprehensive assessment of theoretical knowledge and practical skills.
- Written exams covering fuel system repair and maintenance principles and procedures.
- Practical exams on real-world fuel system repair tasks.
- Certification upon successful completion of the course.
- Opportunities for advanced training and specialization.

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Practical training:

- Fuel System Diagnostics: Techniques for identifying fuel system problems.
- Component Repair: Hands-on practice with fuel pumps, injectors, and filters.
- Fuel Injection Calibration: Adjusting and calibrating fuel injection systems.
- Emissions Control: Understanding and applying emissions-related repairs.
- Safety Measures: Implementing safety protocols during fuel system repairs.
- Electronic Fuel Systems: Working with electronic fuel management systems.
- Troubleshooting: Real-world scenarios for troubleshooting fuel system issues.
- Field Projects: Engaging in fuel system repair projects in automotive shops.

Career scope:

Upon completing the Fuel System Repair Training course, graduates can explore career opportunities in various sectors, including:

- Fuel System Repair Technician
- Automotive Mechanic
- Diesel Mechanic
- Fuel Injection Specialist
- Fleet Maintenance Specialist
- Heavy Equipment Mechanic
- Emissions Control Technician
- Automotive Service Advisor
- Marine Engine Mechanic
- Workshop Manager



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