



PERTECNCA'S

LUBRICATION SYSTEM

TRAINING

BROCHURE



Practical training



Post training assistance

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LUBRICATION SYSTEM TRAINING

The Lubrication System Training Program is meticulously designed to impart comprehensive knowledge and hands-on skills required for maintaining, diagnosing, and repairing lubrication systems in automotive, industrial, and heavy machinery applications. This course is perfect for aspiring mechanics, automotive technicians, and professionals seeking to specialize in lubrication system maintenance. Participants will learn about various lubrication methods, the importance of proper lubrication, and techniques to ensure efficient operation of machinery and vehicles.

What you'll learn?

- Basics and types of lubrication systems.
- Components of lubrication systems: pumps, filters, oil reservoirs, etc.
- Different types of lubricants and their specific applications.
- Techniques for diagnosing common lubrication system issues.
- Procedures for lubrication system maintenance and servicing.
- Methods for repairing and replacing lubrication system components.
- Preventive maintenance practices to extend system life.
- Safety protocols for handling lubricants and system components.

Course summary:

This training program covers all essential aspects of lubrication system maintenance, from understanding the basics to performing complex repairs. Participants will engage in a blend of theoretical instruction and practical workshops, enabling them to diagnose and resolve lubrication system issues efficiently. The course is structured to provide an in-depth understanding of lubrication systems, ensuring that participants are well-prepared to handle real-world challenges in both automotive and industrial settings.

Key Takeaways:

- Expertise in identifying and resolving common lubrication system problems.
- Proficiency in performing preventive maintenance to extend system life.
- Hands-on experience with various lubrication systems and components.
- Understanding of different types of lubricants and their proper handling techniques.

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Course syllabus:

Module 1: Introduction to Lubrication Systems

- Overview of lubrication system types: automotive, industrial, and machinery.
- Basic principles of lubrication and its importance.
- Key components of lubrication systems and their functions.
- Importance of lubrication system maintenance for equipment longevity.

Module 2: Lubrication System Components

- Detailed study of pumps, filters, oil reservoirs, and lines.
- Understanding lubricant distribution methods: splash, pressure, and mist.
- Types of lubricants: oils, greases, and their specific applications.
- Practical session: Identifying and inspecting lubrication system components.

Module 3: Diagnosing Lubrication System Problems

- Common lubrication system issues: leaks, blockages, and component failures.
- Techniques for diagnosing issues: visual inspection, pressure testing, etc.
- Use of diagnostic tools for lubrication systems.
- Practical session: Diagnosing real-world lubrication system problems.

Module 4: Lubrication System Maintenance Procedures

- Step-by-step guide to flushing and refilling lubrication systems.
- Methods for checking and maintaining lubricant levels and condition.
- Preventive measures to avoid common lubrication system issues.
- Practical session: Performing complete lubrication system maintenance.

Module 5: Repairing Lubrication System Components

- Techniques for repairing or replacing pumps, filters, and lines.
- Troubleshooting oil pressure and flow issues.
- Addressing leaks and ensuring system seals.
- Practical session: Repairing and replacing lubrication system components.

Module 6: Advanced Lubrication System Maintenance

- Handling complex lubrication systems in heavy machinery and industrial equipment.
- Dealing with advanced lubrication technologies: central lubrication systems, automatic lubricators.
- Practical session: Maintenance of advanced lubrication systems.

Module 7: Testing and Quality Assurance

- Conducting pressure and flow tests to ensure system functionality.
- Testing lubricant quality and system efficiency.
- Quality checks after maintenance and repair work.
- Practical session: Testing and certifying lubrication system integrity.

Module 8: Real-World Applications and Fieldwork

- Hands-on projects: Lubrication system maintenance on various vehicles and equipment.
- Fieldwork: Participating in lubrication system maintenance in real-world settings.
- Collaboration with industry experts on lubrication system projects.
- Practical session: Real-world maintenance and repair projects.

Module 9: Preventive Maintenance Techniques

- Importance of regular lubrication system checks and servicing.
- Developing maintenance schedules for different systems.
- Implementing preventive measures to extend the lifespan of lubrication systems.
- Practical session: Creating and following a maintenance plan.

Module 10: Evaluation and Certification

- Comprehensive assessment of theoretical knowledge and practical skills.
- Written exams covering engine overhaul principles and procedures.
- Practical exams on disassembly, inspection, repair, and reassembly of engines.
- Certification upon successful completion of the course.
- Opportunities for advanced training and specialization.

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Practical training:

- System Diagnosis: Techniques for identifying issues in lubrication systems.
- Component Inspection: Checking pumps, filters, and oil reservoirs.
- Lubricant Management: Selecting the correct lubricants for different applications.
- System Repair: Replacing worn or damaged lubrication components.
- Testing and Quality Assurance: Ensuring the system is functioning properly.
- Preventive Maintenance: Steps to maintain system efficiency and longevity.
- Field Applications: Real-world maintenance and repair projects.
- Safety Practices: Proper handling and disposal of lubricants and materials.

Career scope:

Upon completing the Lubrication system Training course, graduates can explore career opportunities in various sectors, including:

- Lubrication System Technician
- Automotive Mechanic
- Industrial Equipment Technician
- Heavy Machinery Maintenance Technician
- Fleet Maintenance Specialist
- Service Workshop Manager
- Lubrication System Engineer
- Automotive Service Advisor
- Heavy Equipment Operator
- Maintenance Supervisor



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