



*Training Course:
Fundamentals of Lubrication Technology*

*6 - 10 April 2025
Dubai (UAE)*

Training Course: Fundamentals of Lubrication Technology

Training Course code: EN235718 From: 6 - 10 April 2025 Venue: Dubai (UAE) - Training Course Fees: 5300 € Euro

Introduction

The Fundamentals of Lubrication Technology training program, designed by Global Horizon Training Center, provides participants with a comprehensive understanding of lubrication mechanisms, the science of friction and wear, and the role of lubricants in ensuring machinery efficiency and reliability. This program offers a robust foundation in lubricant formulation, application, and maintenance techniques, equipping attendees with the knowledge required for effective lubrication management in industrial and hydraulic systems.

Objectives

By the end of this program, participants will be able to:

1. Understand the fundamental mechanisms of lubrication and its impact on machinery efficiency.
2. Identify and differentiate between various types of lubricants, including their properties and applications.
3. Comprehend the basics of lubricant formulation, additive chemistry, and performance specifications.
4. Apply best practices in lubrication systems maintenance, contamination control, and oil analysis.
5. Develop expertise in hydraulic, industrial, and grease technology for specific equipment needs.

Course Methodology

This program will be delivered through:

- Interactive lectures with multimedia presentations.
- Hands-on case studies and practical scenarios.
- Group discussions and problem-solving exercises.
- Demonstrations of lubrication systems and testing methods.
- Certification preparation guidance for Machinery Lubrication Technician MLT.

Organizational Impact

Organizations will benefit by:

- Enhancing the efficiency and reliability of machinery through optimized lubrication practices.
- Reducing downtime and operational costs due to improved maintenance strategies.
- Increasing the technical skills of personnel, ensuring compliance with lubrication performance standards.
- Mitigating risks of equipment failures through proper lubricant selection and contamination control.
- Building a foundation for adopting advanced lubrication technologies and certifications.

Target Audience

This program is designed for:

- Maintenance engineers and technicians.
- Reliability engineers and plant managers.
- Lubrication specialists and MLT certification aspirants.
- Technical personnel in hydraulic and industrial lubrication.
- Professionals involved in machinery maintenance and troubleshooting.

Course Outline:

Day 1: Overview of Lubrication Mechanisms

- Introduction to Lubrication: Principles and mechanisms.
- Basics of Friction, Wear, and Viscosity: How they impact machinery operation.
- Types of Lubricants: Overview of mineral, synthetic, and biolubricants.
- Lubricant Formulation Basics: Composition and key performance attributes.

Day 2: Additive Chemistry and Base Oil Selection

- Additives in Lubricants: Roles and types anti-wear, antioxidants, etc..
- Base Oil Selection: Properties and compatibility.
- Performance Testing and Specifications: Standards and benchmarks.
- Introduction to Blending Techniques: Overview of manufacturing processes.

Day 3: Machinery Lubrication Technician MLT Certification

- Lubrication Systems and Maintenance Practices: Best practices and guidelines.
- Contamination Control: Techniques for preventing contamination.
- Basics of Oil Analysis: Interpreting results for machinery health.
- Equipment-Specific Lubrication Techniques: Tailored practices for different machines.

Day 4: Hydraulic and Industrial Lubricants

- Properties of Hydraulic Oils: Characteristics and performance.
- Lubricant Selection for Industrial Applications: Matching lubricants to operational needs.
- Troubleshooting Common Lubricant Issues: Identifying and resolving challenges.

Day 5: Introduction to Grease Technology

- Manufacturing and Testing of Greases: Processes and quality checks.
- Applications and Compatibility: Appropriate use and compatibility considerations.
- Understanding Grease Performance Standards: Standards and evaluations.
- Program Wrap-Up: Recap, Q&A, and MLT certification preparation.

Registration form on the Training Course: Fundamentals of Lubrication Technology

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Full Name (Mr / Ms / Dr / Eng):

Position:

Telephone / Mobile:

Personal E-Mail:

Official E-Mail:

Company Information

Company Name:

Address:

City / Country:

Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng):

Position:

Telephone / Mobile:

Personal E-Mail:

Official E-Mail:

Payment Method

- Please find enclosed a cheque made payable to Global Horizon
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