



*Training Course:
Lubrication: Selection and Engineering*

26 - 30 April 2026

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Lubrication: Selection and Engineering

Training Course code: EN1931 From: 26 - 30 April 2026 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4410 € Euro

Introduction

Lubrication plays a critical role in ensuring the reliability, efficiency, and longevity of mechanical systems across industrial operations. Proper selection and engineering of lubricants reduce friction, minimize wear, prevent corrosion, and enhance equipment performance under varying operating conditions.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to select, apply, and manage lubrication systems effectively in accordance with engineering best practices.

Course Objectives

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

- Understand lubrication fundamentals and tribology principles
- Identify different types of lubricants and their applications
- Select appropriate lubricants based on operating conditions
- Analyze lubricant properties and performance characteristics
- Design and manage lubrication systems for industrial equipment
- Implement lubrication best practices for maintenance and reliability
- Monitor lubricant condition and perform oil analysis
- Improve equipment efficiency and reduce maintenance costs

Target Audience

This program is designed for:

- Maintenance and Reliability Engineers
- Mechanical Engineers and Technicians
- Plant and Operations Personnel
- Lubrication and Condition Monitoring Specialists
- Asset Management Professionals
- Industrial and Manufacturing Engineers

Outline

Day 1: Fundamentals of Lubrication and Tribology

- Introduction to lubrication and its importance
- Basics of tribology friction, wear, lubrication regimes
- Types of lubricants: oils, greases, solid lubricants
- Functions and benefits of lubrication
- Lubrication standards and terminology

Day 2: Lubricant Properties and Selection

- Physical and chemical properties of lubricants
- Viscosity, viscosity index, and temperature effects
- Additives and their functions
- Selecting lubricants based on application requirements
- Compatibility and contamination considerations

Day 3: Lubrication Systems and Engineering Design

- Types of lubrication systems manual, automatic, centralized
- Designing lubrication systems for machinery
- Lubrication methods splash, pressure, mist, grease
- Equipment-specific lubrication requirements
- System optimization and efficiency

Day 4: Lubricant Monitoring and Maintenance

- Oil analysis techniques and condition monitoring
- Sampling methods and interpretation of results
- Preventive and predictive maintenance strategies
- Identifying lubricant degradation and contamination
- Troubleshooting lubrication-related failures

Day 5: Reliability Improvement and Case Studies

- Best practices in lubrication management
- Reducing wear and extending equipment life
- Lubrication programs and planning
- Cost optimization and performance improvement
- Case studies and real-world applications

Registration form on the Training Course: Lubrication: Selection and Engineering

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