



Consulting and Training | Reach New Heights

Course Name

Lubrication Technology

Sector Name

Mechanical Engineering

Document Type

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Lubrication Technology

Course Introduction

This five-day training program provides participants with a clear and practical introduction to industrial lubrication. The course goes beyond simple machine lubrication and focuses on the correct selection, storage, handling, application, and basic testing of lubricants to support safe equipment operation and improve reliability.

Participants will develop a basic understanding of oil properties, additives, and common application problems, enabling them to work more effectively with maintenance teams and oil analysis specialists. The course is highly interactive, using simple explanations, discussions, worked examples, and practical case scenarios to ensure easy understanding and immediate application in the workplace.

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Target Audience

- ✓ Maintenance Technicians
- ✓ Mechanical Technicians
- ✓ Operations & Utilities Staff
- ✓ Junior Engineers
- ✓ Equipment Operators
- ✓ Maintenance Supervisors (Beginners Level)

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Learning Objectives

- ✓ Identify the main types of industrial lubricants and their common uses
- ✓ Understand the basic purpose of lubricant additives
- ✓ Recognize key lubricant properties and simple test results
- ✓ Apply correct lubrication practices for common plant equipment
- ✓ Identify common lubrication problems and simple solutions
- ✓ Follow proper health, safety, and environmental practices in lubricant handling

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Course Outline

✓ **01 DAY ONE**

Introduction to Industrial Lubricants

Types of Lubricants and Basic Manufacture

- ✓ What is lubrication and why it is important
- ✓ Mineral oils
- ✓ Animal and vegetable oils
- ✓ Synthetic lubricants (basic introduction)
- ✓ Miscellaneous industrial fluids
- ✓ Greases and solid lubricants (simple structure and uses)

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Course Outline

✓ 02 DAY TWO

Basic Properties & Simple Specifications

Understanding Lubricant Properties

- ✓ Viscosity (simple explanation)
- ✓ Specific gravity
- ✓ Specific heat
- ✓ Acidity (basic concept)
- ✓ Flash point and safety
- ✓ Water and sediment contamination
- ✓ Basic understanding of equipment lubricant specifications

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Course Outline

✓ **03 DAY THREE**

Introduction to Lubricant Additives

Why Additives Are Used

- ✓ Viscosity Index (VI) improvers
- ✓ Antioxidants
- ✓ Dispersants
- ✓ Detergents
- ✓ Anti-wear agents
- ✓ Friction modifiers
- ✓ Pour Point depressants
- ✓ Anti-rust and corrosion inhibitors
- ✓ Antifoam agents

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Course Outline

✓ Day 04

Applications & Common Problems

Basic Lubricant Applications

- ✓ Lubrication of gasoline engines
- ✓ Lubrication of diesel engines
- ✓ Gas turbine lubrication (basic overview)
- ✓ Electrical equipment lubrication
- ✓ Metal-working equipment lubrication
- ✓ Common lubrication mistakes and how to avoid them

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Course Outline

✓ Day 05

Safety, Turbines & Environmental Care

Special Topics and Good Practices

- ✓ Basic lubrication in steam turbines
- ✓ Simple explanation of oil deterioration
- ✓ Safe storage and handling of lubricants
- ✓ Health and safety precautions
- ✓ Fire prevention
- ✓ Safe disposal of used oil
- ✓ Environmental protection practices

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
July 5, 2027	July 9, 2027	5 days	4250.00 \$	UAE , Dubai
Sept. 28, 2026	Oct. 2, 2026	5 days	4250.00 \$	UAE , Dubai
Dec. 20, 2026	Dec. 24, 2026	5 days	4250.00 \$	KSA , Riyadh
Jan. 25, 2027	Jan. 29, 2027	5 days	4250.00 \$	UAE , Abu Dhabi

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