



Mechanical Engineering

Lubrication Technology

Course Introduction

Participants gain much more than pointers on lubricating a machine – they learn proven industry methods for selecting, storing, filtering and testing lubricants to boost reliability and generate lasting results in machine efficiency/maintenance. They also gain better understanding of oil analysis, so they can align their efforts with those of maintenance professionals or oil analysis experts. This interactive course covers best practice solutions to ensure your plant achieves world class levels in lubrication. Attendees will be encouraged to participate with questions and discussion. Worked examples and case studies will be a key part in this training.

Target Audience

- Automotive Engineer
- Boiler Engineer
- Ceramics Engineer
- Equipment Engineer
- High-Pressure Engineer
- Marine Engineer
- Mechanical Design Engineer
- Mechanical Engineer
- Naval Architect
- Pipeline Engineer
- Power Engineer
- Rotating Equipment Engineer
- Senior Mechanical Engineer
- Turbine Engineer
- Validation Engineer

Learning Objectives

- Get detailed knowledge on the available types of lubricants
- Know the additives, specifications and testing
- Discuss in detail the problems of lubricants application

Course Outline

• 01 DAY ONE

Types of Lubricants and their Manufacture

- Mineral oils
- Animal and vegetable oils
- Synthetic liquids
- Miscellaneous fluids
- Greases - Solid lubricants

• 02 DAY TWO

Properties and Specifications of Lubricants

- Viscosity
- Specific gravity
- Specific heat
- Acidity
- Saponification value
- Flash – point
- Water and sediment

• 03 DAY THREE

Lubricating Oil Additives

- VI improves
- Antioxidants
- Dispersants
- Detergents
- Anti-wear agents
- Friction modifiers
- Extreme pressure agents
- PP Depressants
- Antirust agents
- Antifoam agents

• 04 DAY FOUR

Lubricants Applications and Problems

- Automotive Gasoline engine lubricants
- Gas turbine lubricants
- Lubrication of marine diesel propulsion engines
- Lubrication of automotive diesel engines
- Lubrication of electrical equipment.
- Lubrication of metal working equipment

• 05 DAY FIVE

Textile Machinery

- Lubrication in steam turbines
- Deterioration in steam turbines
- Health and safety in lubricants handling and use
- Disposal of used oil

Confirmed Sessions

FROM	TO	DURATION	FEEES	LOCATION
June 23, 2025	June 27, 2025	5 days	4250.00 \$	UAE - Dubai
Sept. 22, 2025	Sept. 26, 2025	5 days	4250.00 \$	UAE - Dubai
Dec. 14, 2025	Dec. 18, 2025	5 days	4250.00 \$	KSA - Riyadh
Sept. 28, 2025	Oct. 2, 2025	5 days	4250.00 \$	oman - salalah