

LAT LUBRICATION APPRENTICE TECHNICIAN

ICML beginner course for maintenance technicians covering lubrication fundamentals, lubricant types, and application methods. Covers field inspections, proper lubricant application techniques, contamination control, oil analysis basics, and proper lubricant handling. Designed to create awareness among ground-level maintenance teams to help improve reliability, reduce downtime, and support ICML LAT exam preparation.

Format

Duration: 28 hours **Schedule:** 4 Day(s) **Delivery:** Classroom

Who should attend

- Maintenance technicians
- Supervisors
- Field operators
- Fresh graduates

Objectives

- Build strong lubrication fundamentals based on industry's best practices.
- Apply proper lubrication techniques to reduce wear and unplanned downtime.
- Understand contamination control and basic oil analysis principles.
- Promote safe, clean, and environmentally responsible lubricant handling.
- Prepare for ICML LAT certification exam.
- The exam and the associated certification is provided by ICML. Baker Hughes can provide an proctored environment for the paper or online exam.

*ICML Partner

Duration: 4 days ILT, (28 hours) +1 day for the ICML exam

Recommended Prerequisites

No prior lubrication experience required

Program Outline

Day 1:

- Why machines need lubrication
- Basic machine and bearing types
- Functions of lubricants
- Viscosity and viscosity index (VI)

Day 2:

- Lubricant types: oils, greases, solid lubricants
- Base oils, additives, and grease basics (thickeners, NLGI grades)
- Lubrication methods (manual & automatic)
- Greasing best practices (quantity, frequency, cleanliness)

Day 3:

- Basic lubrication calculations (volume & intervals)
- Introduction to ultrasound lubrication
- Oil sampling fundamentals and visual inspection
- Recognizing early signs of lubrication problems

Day 4:

- Basics of contamination control and ISO cleanliness codes
- Major contaminants and their effects
- Lubricant storage, handling, and identification systems
- Health, safety, and environmental considerations

CERTIFICATION

ICML

Global Partner: International Council for Machinery Lubrication (ICML)



