

Field Lubrication

ISO 18436-4 Category I

Learn to be a confident and effective Field Lubricant Analyst - demonstrating proven knowledge of industry methods for selecting, storing, filtering, and testing lubricants to boost reliability to generate lasting results in machine availability and overall reliability. With the use of advanced 3D animations and interactive simulations, we have strived to make everything easy to understand.

Congratulations on the decision to study Field Lubrication. This course will prepare you for life performing field lubrication.

We will help you understand why field lubrication is important. You will learn the fundamentals of lubrication, and you will learn how to implement the best practices of plant lubrication.

Once you complete the training, you can take the exam with confidence through Mobius Institute Board of Certification [MIBoC]™, an internationally respected certification body, knowing that the certification is in accordance with ISO 18436-4, ISO/IEC 17024.

FLCAT-I CANDIDATE PROFILE

This course is intended for the Field Lubrication Analysts who will:

- Manage lubricant delivery, storage, and dispensing.
- Manage a route for machinery re-lubrication and/or inspection.
- Properly change and/or top up the oil in mechanical equipment found in common industrial sites.
- Use simple techniques to select lubricants with the proper base oil and additive system for machines commonly found in industrial settings.
- Use simple techniques to select grease application methods (including automated delivery) that are least intrusive and most effective for machines commonly found in industrial settings.
- Use simple techniques to estimate re-grease volumes and intervals for machines commonly operated in industrial settings.
- Properly maintain automatic lubrication systems (auto-grease, mist systems, etc.).
- Employ basic oil analysis techniques to identify and troubleshoot abnormal lubricant degradation conditions and use simple techniques to adjust the lubricant specification accordingly.

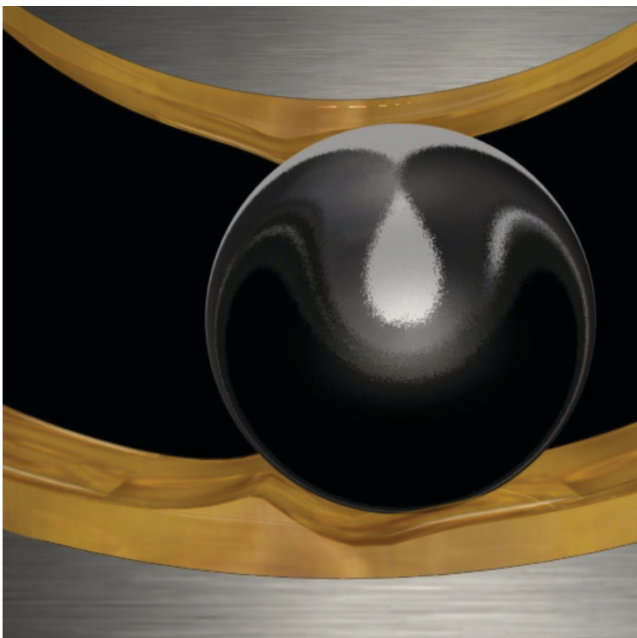


WHAT WILL YOU GAIN FROM TAKING THIS COURSE?

There are many benefits of taking this course...

You will learn:

- About common maintenance strategies and the role of the lubricant
- About the science of machinery lubrication and the 'responsibilities' of the lubricant to reduce friction, reduce wear, control corrosion, and more
- About mineral, synthetic and vegetable-based oils: their properties, additives and uses
- About the performance properties of lubricants such as viscosity, rust and corrosion prevention, and anti-wear
- Lubricant selection guidelines for bearings, compressors, hydraulic systems, and more
- Methods for applying grease and oil
- About keeping lubricants clean and the impact of lubricant contamination
- How to effectively store and dispense lubricants
- Methods for sampling and monitoring the health of lubricants



FLCAT I FAST FACTS

Duration:

- 30 hours, typically over four days

Format:

- Live public course
- On-site course
- Virtual live instructor-led online course
- Self-paced distance learning online course

Compliance:

- Training: ISO 18436-4
- Certification: ISO 18436-1, ISO/IEC 17024

Exam:

- Two-hours
- 70 multiple-choice questions
- 70% passing grade
- Can be taken online or in-person at the course

Certification requirements:

- Training course completed
- 12 months of work experience (with a minimum of 16 hours per month in lubricant-analysis-based condition monitoring)
- Pass the exam
- Valid for 5-years

Pre-study:

- Access to the "Learning Zone" upon registration and payment
- Complete set of videos covering every topic
- Online study is an excellent way to be prepared and get the most from the course

Post-study:

- Continue to access the Learning zone for 4-months after the course
- Continue learning, without charge, on MOBIUS CONNECT® via WWW.MOBIUSCONNECT.COM



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Topics Covered - FIELD LUBRICATION CATEGORY I

- **Maintenance strategies and the role of machine lubrication**
- **The science of machinery lubrication**
 - Tribology
 - Friction
 - Wear modes
 - Lubrication regimes
- **Lubricant construction**
 - Base oils, additives, and thickeners
 - Mineral oils
 - Synthetic oils
 - Vegetable-based oils
 - Grease and solid lubricants
- **Lubricant performance properties**
 - Viscosity, flash point, antioxidants, detergents, friction modifiers
- **Lubricant selection**
 - Oil vs grease vs solid vs gas
 - Component types - bearings, gearboxes, hydraulics, ropes, chains and more
 - Operating viscosity
- **Lubricant application**
 - Grease and oil lubrication
 - Delivery techniques
 - The 'lube route'
- **Lubricant contamination and condition control**
 - Sources of contamination
 - ISO 4406 cleanliness standard
 - Avoiding contamination
- **Lubricant storage and handling**
 - Storage guidelines
 - Lubricant dispensing
- **Lubrication sampling and analysis**
 - Sampling practices
 - Lubricant health monitoring
 - Wear debris and wear particle analysis

GET FIELD LUBRICATION TRAINED AND CERTIFIED!

At Mobius Institute we have invested heavily in animations, interactive simulations, and detailed graphics to ensure that you enjoy the learning process and understand everything covered in the course.



**SCAN TO VIEW
COURSE DEMOS**

www.mobiusinstitute.com

