



Field Lubrication ISO 18436-4, ISO/IEC 17024

TRAINING AND CERTIFICATION

Field Lubrication Category I



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LEARN THE MOBIUS WAY

WHY LEARN WITH MOBIUS INSTITUTE™?

There are four major reasons why over 8,000+ students choose Mobius Institute every year, and why you should choose Mobius Institute for your Field Lubrication training and certification.

- ▶ We make complex topics simple with amazing 3D animations and simulations that make you say, "Ah, now I get it!"
- ▶ Our Field Lubrication training course is inclusive of the *Machine Lubricant Analyst (MLA I)* and *Machinery Lubrication Technician (MLT I)* topics as well as additional educational content.
- ▶ We give you access to the entire course before the class begins so you are better prepared, and for four months after the course, just in case you still have questions.
- ▶ We use anonymous, stress-free polling throughout the course, so you know whether you truly understand each topic, and the instructor knows when to move on to the next topic - *no student is left behind.*



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WITH MOBIUS INSTITUTE™, YOU CAN *LEARN YOUR WAY.*

We offer the ultimate flexibility. See the course details for more information.



CLASSROOM INSTRUCTOR-LED COURSES

We have 200+ training partners in 115+ countries, offering 29+ languages.



VIRTUAL INSTRUCTOR-LED COURSES

Attend a virtual course - just like a live course, but you learn via an online platform.



PRIVATE ON-SITE INSTRUCTOR-LED COURSES

Have the instructor come to your site to save your precious time and money.



ONLINE VIDEO COURSES

Traditional online self-paced Learning Management System (LMS) courses.

WHY BECOME CERTIFIED BY THE MOBIUS INSTITUTE BOARD OF CERTIFICATION™?

There are so many benefits to becoming certified:

- You should be recognized for your achievements; not everyone is up to the challenge of understanding field lubrication.
- The educational process is extremely valuable, but being certified tells an employer (or a consulting client) that you are capable of doing an important job.

65,000+ students around the world, just like you, chose Mobius Institute for this validation.

You will receive a digital certificate and personalized logo from our digital certification platform. Your personalized logo can be added to your email signatures and wherever else you want people to know about your achievements.





Field Lubrication

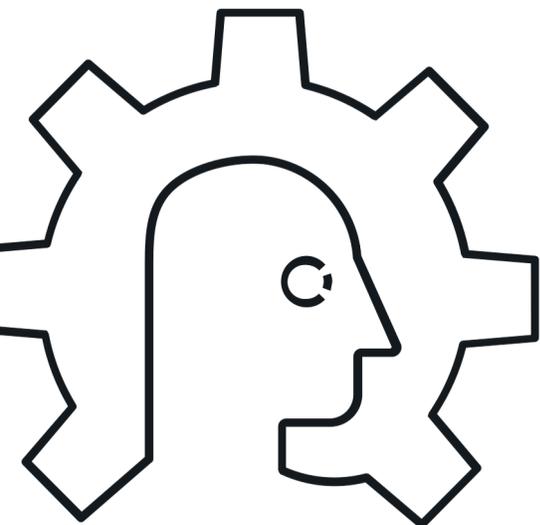
ISO 18436-4 Category I

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.



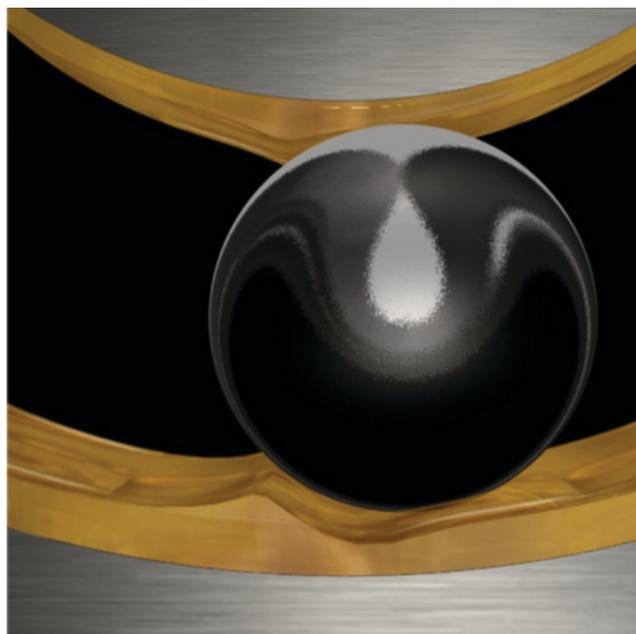


WHAT WILL YOU GAIN FROM TAKING THIS COURSE?

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



Field Lubrication ISO 18436-4 Category I



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





> WILL I RECEIVE PRE-COURSE STUDY MATERIALS?

Upon course registration all students will receive an instructional email with a link to the TMS (Training Management System) to finalize their course registration and student profile. Here you will access the applicable online Learning Zone under the training course tab in your student profile. The Learning Zone provides a digital version of the coursebook and also a series of folders containing movies. These movies are actual course videos, recorded in a studio, and contain similar content taught in the Instructor-led course. The Learning Zone account may be used for pre-course study, review during the course week, and reference after the course. The account is activated at the time the student registers for the course and expires 4-months after the last day of the training. The Learning Zone account may be used for pre-course study materials review during the course week, reference after the course, or used to re-take the course and re-sit your certification exam. The account is activated at the time the student registers the course and expires 4-months after the close date of the course they will be attending.

> CAN I BUY THE LEARNING ZONE ACCOUNT AND USE IT TO STUDY FOR THE CERTIFICATION EXAM?

No, but we do offer Category I Distance Learning (DL) courses which are the online equivalent to our Public courses. The cost is the same as attending a Public course, the training material content is fully ISO 18436 compliant, and you will be qualified to take the Certification Exam once you have completed the DL course.

You will find the distance learning courses on our shopping cart.

> DO YOU OFFER ON-SITE INSTRUCTOR LED COURSES?

Yes, we can provide this training onsite at your facility or any other training facility of your choice. If you are in North America, Australia, or New Zealand, please email the number of students to learn@mobiustitute.com for a quotation. Outside of these areas, contact your local training partner; www.mobiustitute.com/training-partners/.

> MAY I TAKE ONE OF YOUR COURSES IF I AM NOT INTERESTED IN BECOMING CERTIFIED OR IF I HAVE INSUFFICIENT EXPERIENCE FOR CERTIFICATION?

Yes, our courses are open to anyone that wishes to improve their knowledge. If you are involved in any of the technologies in any capacity, such as sales, marketing, engineering, design, or reliability, you will come away with a far better understanding.

> AFTER I ATTEND YOUR COURSE AND TAKE THE EXAM, WHEN WILL I RECEIVE NOTIFICATIONS AS TO WHETHER I PASSED, AND WHEN WILL I RECEIVE MY CERTIFICATE?

You will receive notification of your results 5-10 days after the exam has been received at our Australian office. If you have passed the exam and met all certification requirements, you will receive your Digital Certificate 10-15 days after your exam results notification email.





> WHAT ARE THE EXPERIENCE REQUIREMENTS FOR FLCAT I?

You must have twelve (12) months of practical work experience (with a minimum of 16 hours per month in lubricant-analysis-based condition monitoring), verified by your supervisor/manager.

> HOW LONG IS THE CERTIFICATION VALID?

Certification is valid for five (5) years.

> HOW DO I QUALIFY FOR RENEWAL?

Once you have purchased your certification renewal, the Renewals Team will be advised of your payment. You will then receive an email of the outstanding requirements needed to proceed with your application. You can assist us in this process by logging in here to your TMS student account to ensure your profile details are current by completing the following:

- Enter a new work experience record that you accomplished over the past 5 years for lubrication since your certification was issued. (Your experience is required to be verified by your current and/or previous managers.)
- Agreed to the MIBoC Code of Ethics Document
- Agreed to the MIBoC Renewal Declaration

> HOW DO I RENEW MY CERTIFICATION?

You will purchase your certification renewal and the Renewals Team will be advised of your payment. You will then receive an email of any outstanding information required within the Training Management System (TMS) to proceed with your application.





Mobius Institute Board of Certification is an accredited certification body per ISO/IEC 17024, ISO 18436-1 and ED 161-1, authorized to provide certification in accordance with ISO 18436-2, 18436-7, 18436-8, and ED 161-2.

Mobius Institute Board of Certification (MIBoC) is an impartial and independent entity that is directed by scheme and technical committees to ensure that its certification meets or exceeds the requirements defined by the applicable International Organization for Standardization, ISO 18436 standards.

MOBIUS INSTITUTE is a worldwide provider of reliability improvement, condition monitoring and precision maintenance education to industrial plant managers, reliability engineers, and condition monitoring technicians. Our programs will allow plants to be successful in implementing reliability improvement programs through delivery of more easily understandable and comprehensive training of reliability and condition monitoring via public, in-plant and online education programs.

For more information about additional training courses, software tools, industry terminology and definitions, accredited certification, and specific course details, visit the Mobius Institute website.

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MOBIUS CONNECT is your gateway to reliability and CBM videos, webinars, articles, tips, and a live feed and forum. You will connect with people, just like you, all over the world.

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You must never stop learning.

