# Field Lubrication

**FL CAT I** 

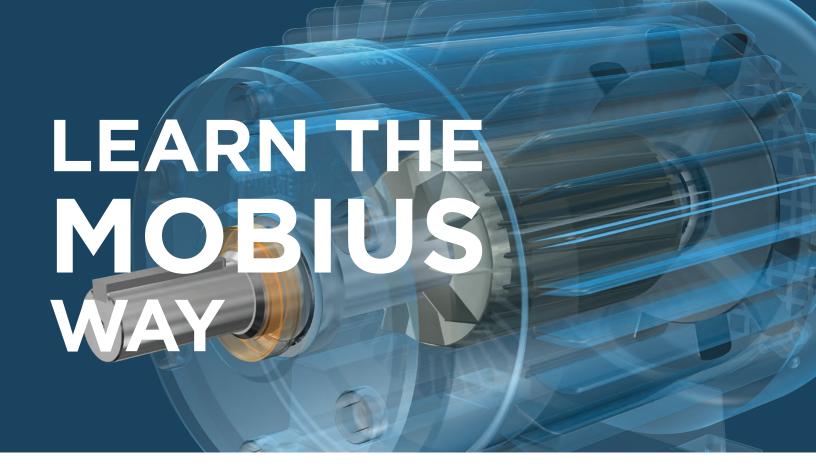
1SO/IEC 17024

ISO 18436-4 Category I FIELD LUBRICATION

TRAINING AND CERTIFICATION







# 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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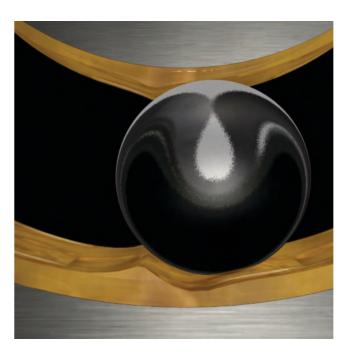


# Field Lubrication ISO 18436-4 Category I

# 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



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.





## 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.

# OAN 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@mobiusinstitute.com for a quotation. Outside of these areas, contact your local training partner; www.mobiusinstitute.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.

# NOW LONG IS THE CERTIFICATION VALID?

Certification is valid for five (5) years.

### NOW 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

# NOW 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.

To enroll or enquire, contact RELIABILITY
INSTITUTE OF AUSTRALIA
+61 (0)456 630 928
training@reliabilityinstitute.com.au https://

reliabilityinstitute.com.au/



Authorized Mobius Institute Reliability Training Partner and MIBoC Examination Centre

