



FLCAT-I

ISO 18436-4 FLCAT-I FIELD LUBRICATION

This Mobius Institute Field Lubrication course is the ideal starting place to gain a solid understanding of the fundamentals of lubrication and learn how to implement the best practices of plant lubrication.

- With the use of Mobius's advanced 3D animations and interactive simulations, the course makes complex concepts easier to understand.
- By completing the course you will be confident in implementing proven industry methods of selecting, storing, filtering, and testing lubricants to generate lasting results in machine reliability.
- This course is suitable for those managing a precision lubrication and contamination control improvement process, as well as those tasked with carrying out the work.
- Field Lubrication CAT-I includes both **Machine Lubricant Analyst (MLA I)** and **Machinery Lubrication Technician (MLT I)** topics, making it the ideal overall training course for those requiring formal training in selection, application and management of lubrication.
- The training is available both as a classroom course taught by an authorized instructor or on-line for self-paced, time flexible learning.

Course Content

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

FAQs

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(s).

May I take the course if I am not interested in the certification or if I have insufficient experience for certification, but just want to learn about Lubrication?

Yes, the course is 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 finish the course when can I sit the exam?

When you finish the course, you will receive an email advising that you can apply for the exam. Allow 2-3 weeks to get organized and pick a time and date of your choosing. You will need to nominate an independent invigilator to supervise the exam.

Can I also do the exam on-line?

Yes. However, you will need to nominate a suitable workplace invigilator who can supervise and ensure the integrity of the exam.

After the exam, how long will it take to get the results?

You will receive notification of your results within a week of the exam and 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.

If I fail, can I attempt the exam again?

Yes. You do not have to do the course again but need to wait 30 days after the first exam before sitting it again.

How long is the certification valid?

Certification is valid for five (5) years.

Do I have to sit the exam again after 5 years?

No. You will need to update your work experience for the last 5 years and have it verified by a manager or supervisor. You also need to agree to the MIBoC code of ethics and renewal declaration. There is a fee for the renewal.

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Classroom Course:

Duration: 4 days

Classroom courses are held either as public courses or in-house.

Classroom students are given free access to the on-line course for 4 months from enrollment.

A hard copy course manual is supplied at the course.

Certification Exam:

The certification exam is held on the final day of the course.

Distance Learning (on-line) Course:

The course is made up of videos of short studio recordings, totaling 48 hours, presented by Mike Johnson, a renowned lubrication specialist residing in the USA. The content is very comprehensive and informative, with audio commentary and animated visual slides. A colour bound printed course manual is provided to follow the course and study offline. Students have four (4) months to complete the course and can extend access for an additional fee.

Certification Exam:

The certification exam must be taken at a MIBoC Authorised Examination centre or with other students on the final day of a public classroom course. Mobius can assist with locations and dates.

FLCAT 1 Certification requires:

1. Prerequisite of a minimum of 12 month's verified work experience with a minimum of 16 hours per month lubricant analysis based condition monitoring
1. Completing the whole course either in a classroom or on-line
2. Passing the exam with a minimum of 70%. The exam is 2 hours, closed-book with 70 multiple choice questions.

Highly credentialed certification

Once you complete the training you will be eligible to take the exam to become certified by the internationally renowned Mobius Institute Board of Certification [MIBoC] to ISO 18436-4 Category I.

The MIBoC certification is one of the few international programs accredited to ISO/IEC 17024. There is no higher standard in condition monitoring certification.

All MIBoC certified reliability practitioners receive personalized logos with their certification number and name for their own professional use.

Mobius Institute also maintains a listing of all certified analysts on their website and provides each person with a certification confirmation webpage.



To enquire about this or other Distance Learning or Classroom training options.

Contact RELIABILITY INSTITUTE OF AUSTRALIA

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Authorized Mobius Training Partner and MIBoC Exam Centre