

FIELD LUBRICATION CAT-I ISO 18436-4 CATEGORY I

COURSE OVERVIEW

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.

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, and become certified to ISO 18436-4 Category I via the internationally respected Mobius Institute Board of Certification [MIBoC]. The MIBoC certification is accredited to ISO/IEC 17024, it is the only accredited certification in the world.

FL CAT-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 regrease 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.

- **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

FAST FACTS

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

Certification requirements:

- Training course completed
- 12-months of work experience, verified by an independent person
- 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
- An excellent way to be prepared and get the most from the course

Contact for pricing
Printed course manuals & Exam fee included



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