

***Technical Nonprofit Organization Serving Industrial Lubrication  
& Oil Analysis Professionals Worldwide Since 2001***



**ICML**  
International Council for Machinery Lubrication



**Get Certified. Stay Certified.**

## WHO WE ARE

The International Council for Machinery Lubrication is a vendor-neutral, non-profit organization founded in 2001 to serve global industry as the world-class authority on machinery lubrication that advances the optimization of asset reliability, utilization and costs. ICML supports individuals and organizations through programs that strengthen machinery lubrication and oil analysis as technical fields of endeavor. We are a certification body, a standards body, a membership body, and an awards body.

### STANDARDS / ICML 55™

ICML has always supported the development of standards and guides in the areas of lubricant selection and application, contamination control, etc., at ASTM, ISO and other organizations.

Following publication of the ISO 55000 “Asset Management” standard in 2014, ICML marshalled a worldwide team of 45 technical experts to develop a highly tactical, lubrication-specific standard to supplement the more general ISO document. The result is collectively known as ICML 55, a set of standards that spell out the requirements and guidelines to establish, implement, maintain, and improve consistent lubrication management systems and activities.

Part 1 was published in April 2019: “**ICML 55.1:** Requirements for the Optimized Lubrication of Mechanical Physical Assets.” It fully defines twelve interrelated areas required for any sustainable, world-class, lubrication program plan. (See list on back cover.)

### MEMBERSHIPS

ICML consists of members, professional staff, and technical contributors from around the world. Our new membership structure offers more flexibility, benefits, and engagement opportunities for organizations and individuals who wish to support our mission, gain promotional exposure, collaborate with peers, and secure exam credits.



Non-members can also participate with ICML. Industry practitioners are frequently invited to contribute their expertise to various Council initiatives. Standing committee opportunities include test development, ethics policies, member development, and more.



### AWARDS

Since 2001, ICML awards have become synonymous with world-class programs, recognizing end-user facilities for their accomplishments. The **John R. Battle Award** for Lubrication Excellence and the **Augustus H. Gill Award** for Oil Analysis Excellence motivate companies to improve machine reliability and maintenance quality through development, implementation, and management of their successful programs.

Applications are open to companies worldwide. No connection to ICML is necessary, and there is no cost to apply. However, to remain unbiased, ICML does not nominate programs itself. Submissions must come directly from industry.

## CERTIFICATIONS & EXAMS

Our certification exams are designed to test skills needed to properly perform daily tasks of machinery lubrication, oil analysis, and lubrication engineering. Our program follows the requirements of ISO 18436-1, and we are honored that our certifications were pioneered into ISO 18436-4 and 18436-5 Standards.

Sponsoring an exam session for your employees and customers shows them you are committed to their success and to the betterment of industry.



### Machine Lubricant Analyst (ISO 18436-4)

**Level I** - Targets in-plant technicians responsible for the daily activities associated with lubrication tasks and basic lubricant analysis for machine condition monitoring, including oil changes, top-ups, greasing bearings, lubricant receiving and proper storage and care of lubricants; dispensing devices and basic oil sampling, contamination control and problem detection.

**Level II** - Targets in-plant technicians responsible for the daily activities associated with lubricant analysis for machine condition monitoring, including sampling, sample management, performance of simple onsite tests, managing test results and performing simple diagnostics.

**Level III** - Targets in-plant technicians and engineers responsible for managing the lubricant analysis function. Tasks include team management, test slate selection, setting alarms and limits, sampling system design, instruments and software selection and advanced diagnostics.



### Laboratory Lubricant Analyst (ISO 18436-5)

**Level I** - Targets laboratory technicians performing simple daily activities, according to pre-established procedures associated with testing of lubricant samples. Tasks include receiving and handling samples, performing tests, reporting results and inspecting data from individual test methods.

**Level II** - Targets laboratory technicians responsible for the daily activities associated with producing lubricant analysis data for machine condition monitoring. Tasks include performing test and analysis, diagnosing lubricant failure mechanism and modes instrument calibration and SPC-based quality control.



### Machinery Lubrication Technician

**Level I** - Targets in-plant technicians responsible for daily lubrication tasks, including oil changes, top-ups, greasing bearings, lubricant receiving and proper storage and care of lubricants and dispensing devices.

**Level II** - Targets in-plant technicians or engineers responsible for managing the lube team, selecting lubricants, troubleshooting abnormal lubricant performance and supporting machine design activities.



### Machinery Lubrication Engineer

Targets reliability and asset management professionals with a strong emphasis in lubrication and lubricant analysis. Formal engineering degree not required. This is both an engineering and management level certification for those providing general engineering support to a user lubrication program including lubricant selection, lubrication and sampling hardware selection and implementation, overall lubrication program design and metrics, procedure development, optimizing lubricant PMs and inspection program design, lubricant analysis and troubleshooting, training and skills remediation, and management/staff communications. The MLE Body of Knowledge is strategically mapped to the ICML 55 lubricated asset management standard, so MLE is ideal for those with daily activities in development, implementation and management of lubrication programs, especially when guiding organizations to achieve ICML 55 compliance as a tactical step towards ISO 55001 certification.

#### WHY CERTIFY?

- Creates a formal framework of knowledge
- Provides managers with assurance of skills
- Dignifies machinery lubrication & oil analysis professions
- Allows practitioners international recognition for their credentials

**3100+**  
Annual Certified Applicants

**4200+**  
Companies Benefited

**100+**  
Countries Represented

**10+**  
Languages Available



## ALLIED ORGANIZATIONS

ICML frequently establishes cooperative relationships with like-minded organizations outside of our membership program, for mutually beneficial cross-promotion and pursuit of complementary goals. These relationships can be perennial for long-term interests, or they can be arranged for short-term initiatives such as individual conferences.

## TRAINING PARTNERS

ICML teams with a dynamic network of independent training partners who proactively organize and conduct practitioner training classes aligned with our certifications. Their consistent qualification of exam candidates is integral to the real, measurable growth of professional competency among lubrication and oil analysis practitioners around the world.

We invite potential allies and training partners to contact us through our website so we can discover effective ways to work together. Every relationship is unique, and every role is critical to mutual success.

## RECERTIFICATION

Every three years, certified practitioners can maintain their credentials using a points system based on qualifying activities such as continued industry employment, lubrication-related training, article publication and conference attendance.

# ICML 55™

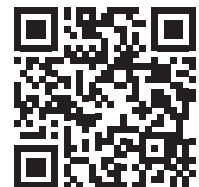
## 12 INTERRELATED AREAS of a LUBRICATION PROGRAM PLAN

01		<b>Skills</b> Job Task, Training, and Competency
02		<b>Machine</b> Machine Lubrication and Condition Monitoring Readiness
03		<b>Lubricant</b> Lubricant System Design and Selection
04		<b>Lubrication</b> Planned and Corrective Maintenance Tasks
05		<b>Tools</b> Lubrication Support Facilities and Tools
06		<b>Inspection</b> Machine and Lubricant Inspection
07		<b>Lubricant Analysis</b> Condition Monitoring and Lubrication Analysis
08		<b>Troubleshoot</b> Fault/Failure Troubleshooting and RCA
09		<b>Waste</b> Lubricant Waste Handling and Management
10		<b>Energy</b> Energy Conservation and Environment
11		<b>Reclaim</b> Oil Reclamation and System Decontamination
12		<b>Management</b> Program Management and Metrics

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