TRAINING GUIDE
Industrial Lubrication Fundamentals | Machinery Lubrication | Oil Analysis

Find Your Perfect Fit. Get the Skills You Need with Noria’s Diverse Training Opportunities
WHY CHOOSE NORIA?

The Difference is in the Details
It's been said that the only constant thing is change. At Noria, we realize change is vital for a company to thrive and sustain for the future. Positive change is impacted through a variety of means, but one important vehicle for change is education.

We are the Source.
Noria is the global authority in machinery lubrication and oil analysis. Each year, we train thousands of professionals worldwide – and in more than 10 different languages – on innovative plant reliability measures through excellence in machine lubrication. Our training encompasses all types of mechanized industries.

We Share Your Passion.
Noria continues to pursue a mission of inspiring change through education by providing customers with the tools, resources and expertise to achieve the tremendous, untapped potential that lubrication excellence has to offer.

We Have Been Down This Road Before.
Noria’s team of experts combines a wide variety of industry experience in reliability, engineering and lubrication excellence to provide world-class training and expertise. Whether you need industry education, technical consulting, failure investigation or program/analysis development, our experts can help you.

Along with extensive experience, Noria’s team relies on a large network of industry leaders to stay current with industry technologies, trends and client needs. Our team works hard to bring the best services and highest level of expertise to each client.
We Work Together with You.

Time is money, and your time is valuable. To accommodate our customers, Noria offers a variety of training options that includes online and private training. We can also customize course curriculum and training to achieve your desired results.

We Implement Change that Endures.

The difference is in the details. Noria’s courses are designed to align with the needs of adult learners, as determined by expert staff that includes an adult-learning specialist, an instructional designer and multiple graphic artists and video/multimedia developers. Training sessions are goal-oriented, relevant and practical. Interactive opportunities are incorporated when possible to maximize knowledge retention and understanding.

We Want You to Succeed.

All course material – from beginner to advanced – is task-based and immediately applicable in the workplace. Students receive preventive maintenance tips and learn why every strategy is important. Knowledge is powerful and when our workforce becomes empowered with excellent lubrication methods, the results are a safer, more efficient and more reliable industry.

We Guarantee Satisfaction.

Noria proudly stands behind our training courses. If you’re not satisfied with the information and insights you gain at these events, we will refund 100% of your paid registration fee.

For dates, complete course description or to enroll, visit Noria.com/train or call 1-800-597-5460
FIND YOUR PERFECT FIT

Something For Everyone
Noria’s course plan is versatile. From beginners to experienced technicians and engineers, we can help you no matter what stage you are currently. Follow the entire course track, progressing from beginner to the expert level, or pick and choose according to your specific needs and interests.

The course progression shown is recommended but not required. To determine the best course for you, contact us at 918-392-5460 or email training@noria.com.
## Basic to Most Advanced

Noria’s courses are built from the same foundational concepts, layering more detailed explorations or specialized topics in higher level coursework. The chart below gives a glimpse into which topics are emphasized in each course as well as how technically detailed the information is. **Topic areas are classified from the most basic (♦) to the most advanced (♦ ♦ ♦ ♦).**

<table>
<thead>
<tr>
<th>Topic Area</th>
<th>Industrial Lubrication Fundamentals</th>
<th>Machinery Lubrication I</th>
<th>Machinery Lubrication II</th>
<th>Oil Analysis II</th>
<th>Oil Analysis III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Strategies</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
</tr>
<tr>
<td>Lubrication Concepts</td>
<td>♦ ♦ ♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦ ♦ ♦ ♦ ♦</td>
</tr>
<tr>
<td>Fundamentals of Machine Wear</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦ ♦ ♦ ♦ ♦</td>
</tr>
<tr>
<td>Lubricant Selection</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
</tr>
<tr>
<td>Reception and Storage</td>
<td>♦ ♦ ♦</td>
<td>♦</td>
<td>♦</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Handling and Application</td>
<td>♦ ♦ ♦ ♦ ♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
</tr>
<tr>
<td>Contamination Control</td>
<td>♦ ♦ ♦</td>
<td>♦</td>
<td>♦</td>
<td>♦ ♦ ♦ ♦ ♦ ♦</td>
<td>♦</td>
</tr>
<tr>
<td>Lubricant Analysis</td>
<td>♦</td>
<td>♦</td>
<td>♦</td>
<td>♦ ♦ ♦ ♦ ♦ ♦</td>
<td>♦ ♦ ♦ ♦ ♦ ♦ ♦</td>
</tr>
<tr>
<td>Wear Debris Analysis</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>♦ ♦ ♦ ♦ ♦ ♦</td>
<td>♦ ♦ ♦ ♦ ♦ ♦ ♦</td>
</tr>
<tr>
<td>Oil Analysis Program</td>
<td>N/A</td>
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<td>N/A</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Environmental Disposal</td>
<td>♦ ♦ ♦ ♦</td>
<td>♦</td>
<td>♦</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Certification Preparation</td>
<td>N/A</td>
<td>MLT I and MLA I</td>
<td>MLT II</td>
<td>MLA II</td>
<td>MLA III</td>
</tr>
<tr>
<td>Availability</td>
<td>Private Classroom</td>
<td>Public, Private Classroom &amp; Online</td>
<td>Public, Private Classroom</td>
<td>Public, Private Classroom</td>
<td>Public, Private Classroom</td>
</tr>
</tbody>
</table>

*Topic Area Scale From 1-4 ♦*
INDUSTRIAL LUBRICATION FUNDAMENTALS

Lay the Groundwork for Future Contributions

Every job has a specialized skillset rooted in its foundation. Industrial Lubrication Fundamentals is the starting point for individuals with all levels of mechanical or maintenance experience. This essential course provides strong techniques and perspective for those with some lubrication knowledge, while presenting sound practical material and instructions for those starting their journey in the field.

Based on extensive collaboration between Noria and plant reliability professionals, the skillset for basic lubrication excellence provides students with the most useful, up-to-date information. This course presents materials in a task-based context, so students receive a well-rounded experience by engaging in interactive exercises, discussing case studies and gaining confidence through hands-on examples.

Who Should Attend?

As an entry-level course, Industrial Lubrication Fundamentals is designed for individuals with little to no technical background, who are responsible for lubrication tasks. Attendee job titles may include lubrication technicians, maintenance technicians, millwrights, mechanics, oilers, machine operators, multicraft technicians, etc.

Want to learn more about this course? Download our brochure or visit Noria.com/train.

Course Topics

• Receiving and Inspecting New Lubricants
• Maintaining Lubricant Containers, Machines and Lubricant Storage Areas
• Maintaining Lube Room Inventory
• Removing Contaminants from New Oils with Filter Carts or Installed Systems
• Protecting Lubricant Integrity through Contamination Control
• Transporting and Applying Lubricants
• Conducting Field Inspections on Machines
• Excluding and Removing Contaminants from Lubricated Machines
• Sampling Lubricants
• Importance of Safety, Leak and Spill Response, and Disposal of Hazardous Materials
• Modifying Machinery for Contamination Control, Safety and Reliability Improvement
• Understanding the Communication and Administrative Tasks Necessary for Your Role

Training Options

• ONSITE
Training That Benefits Your Entire Facility

Training is an ongoing process; not just a one-time event. We realize the need for constant training and made this course easy to take back with you. Upon taking this course, you will receive 90-day access to Noria’s video-based procedures used in the course. Each video procedure comes with a printable job aid to ensure you can take the training with you as you head out to the plant floor. With access to our world-class procedures, you can refresh and review the content learned in the course anytime and anywhere.

Take This Course If You Are Responsible For:
- Electric Motors
- Compressors
- Diesel Engines
- Final Drives
- Gas/Steam Turbines
- Gearboxes
- Hydraulic Systems
- Hydrostatic Transmissions
- Paper Machines
- Process Pumps
- Rolling Mills
- Blowers/Fans

Topics Include:
- Conducting inspections
- Oil changes
- Electric motor bearing regreasing
- Installation of external oil level indicators, valves, quick connectors and more
- Oil sampling
- Using top-up containers
- Oil filtration using a dedicated filter cart

Noria produced instantly usable knowledge, which will definitely result in changes in the way we handle lubricants and lubrication systems.

– Joe Kelly, Maintenance Engineer, Akzo Nobel

For dates, complete course description, or to enroll visit Noria.com/train or call 1-800-597-5460
Course Description
When it comes to food processing, effective lubrication is fundamental to reliable and efficient manufacturing. When the Food Safety Modernization Act (FSMA) was enacted 2011, manufacturers contributing to the creation of food, pharmaceuticals and dietary supplements were mandated to implement systems and controls that specifically address the hazards which impact the safety of the food supply. This new law puts the burden on the individual company’s CEO and board of directors to ensure that the food produced is safe. The implementation of the Hazard Analysis and Critical Control Points (HACCP) and the Hazard Analysis and Risk-Based Preventive Controls (HARPC) emerged as primary guiding principles, shifting the focus on responding to contamination in the U.S. food supply to prevention.

Where Does Your Lubrication Program Fit In?
When it comes to the lubrication and lubricant contributions to FSMA, facilities need to implement, follow and maintain several procedures to ensure compliance. These steps range from creating a dedicated maintenance team and documented procedures to using the right lubricants and properly applying them. Facilities also need to understand the various contamination types (biological, physical and chemical threats), along with ensuring their lubrication program uses a lubricant identification system and proper lubricant storage and handling. At the end of the day, you need to ensure that your lubrication program can be held accountable for meeting the FSMA legislation.

Training Options
- Online

Course Topics
- How to develop a plan for assessing current food-grade lubricant use
- How to conduct a Hazard Analysis and Critical Control Points (HACCP) review of your lubrication program
- How to develop compliant standard operating procedures
- How the various food-grade lubricant requirements and consequences of non-compliance contribute to the biological, chemical and physical risks outlined in FSMA
- How to prepare for an FDA inspection and know what you will need for an FDA inspection
Who Should Attend?

• Maintenance Managers
• Operations Managers
• Plant Managers
• Lubrication Program Managers

Gauge Your Confidence

When determining your confidence level, ask yourself these questions:

• How confident are you that your maintenance plan will meet all the requirements of HARPC?
• Can you produce that plan to FDA inspectors?
• Who is your qualified FSMA team?
• Do you have the right lubricants – are they food grade and the right type?
• Eliminate all the guesswork with this course
Learn the Crucial Elements of Maintenance, Lubricant Selection and Filtration

Early on, Noria’s experts and instructional designers recognized an industry-wide need to establish an effective blueprint for a best-practice-based lubrication program. Machinery Lubrication I (ML I) provides the essentials of proper lubricant application while instilling proven industry methods for selecting, storing, filtering and testing lubricants for improved machine reliability. Through ML I, you will move beyond the dated methods of vague, non-specific lubrication procedures to understand what to do and why there is a right way to do it.

By completing the course, you will leave ML I with a solid understanding of the crucial relationship between lubricant health and machine reliability, as well as understand how doing simple tasks or inspections right will significantly extend machine life and cut costs. You will also gain better understanding of oil analysis, allowing you to align your efforts with those of maintenance professionals or oil analysis experts.

Want to learn more about this course? Download our brochure or visit Noria.com/train.
Through our Machinery Lubrication training, IKEC initiated a lubrication program that saves them $2 million each year in annual losses.

noria.com/serv/customers

Take This Course If You Are Responsible For:

- Lubrication procurement
- Equipment maintenance
- Ensuring equipment readiness and uptime
- Efficiency initiatives/design
- Procedure/quality-control implementation
- Identifying cost-saving methods
- Operations planning
- Equipment reliability

Don’t Forget Your Study Packet

Designed for both ICML Level I MLT and Level I MLA certification, the Level I MLT/MLA Study Packet includes:

**Flash Card Pack** - 385 flash cards designed in preparation for ICML Level I MLT certification.

**125-Question Practice Exam** - A great assessment tool, this multiple-choice practice test is preparation for ICML Level I MLT certification. It is licensed for use by one person.

**How to Take a Multiple-Choice Exam** - This booklet contains advice from professionals who have passed ICML certification exams as well as helpful hints to prepare the night before the exam, steps to take before entering the exam room; techniques for time management during the exam, and advice for handling diverse types of questions.

**Machinery Lubrication Reference Guide** - Packed with useful checklists, look-up tables, charts and illustrations, this reference guide is designed to make information easily accessible where you need it. Also doubles as a handy, on-the-job reference tool!

**Oil Analysis Basics** - With 90+ illustrations, figures and look-up tables, this book presents the fundamentals of oil analysis for machinery condition monitoring in an easy-to-understand format. The book covers everything from how to take a proper oil sample to how to select a test slate for your applications.

**The Practical Handbook of Machinery Lubrication** - Noria’s all-time bestseller, this book contains useful, actionable information that is ready for immediate use. The book contains understandable explanations of how lubricants work, what they’re made of and how they break down. Covering topics ranging from engine lubricants to industrial oils and hydraulic fluids, The Practical Handbook of Machinery Lubrication is page-turner that will stay on the shelf.

Add the Study Packet to your course registration, or visit us at store.noria.com.
Machinery Lubrication II (ML II) covers advanced lubrication topics like lubricant selection, troubleshooting, predictive maintenance and more. Designed for maintenance professionals with a solid understanding of the benefits and potential in excellent lubrication practices, this course builds upon their knowledge and provides an in-depth look into the world of lubrication.

Built as a continuation of ML I, the ML II course prompts you to analyze machines for wear symptoms and select lubricants and additives to counteract or prevent damage.

Through ML II, you will be able to distinguish the appropriate lubricants and additives for every application in your facility, guide staff in conducting basic maintenance and analyze machine/fluid indicators for potential problems. These tools will enable you to make comprehensive improvements in the workplace, resulting in key savings of time, money, storage space and training resources.

Want to learn more about this course? Download our brochure or visit Noria.com/train.

Get Certified
Machinery Lubrication II prepares students for ICML Level II MLT certification. Certification testing is available the Friday following the training. Register for your exam at LubeCouncil.org.

Training Options
- Public
- Online
- Onsite

Course Topics
- Lubrication Preventive Maintenance Optimization and Design
- Troubleshooting Lubrication Problems
- Lubrication and Oil Analysis Metrics
- Oil Drains, Flushing and Reservoir Management
- Accessorizing New Equipment for Lubrication Excellence
- Lubricating Grease and Oil Application
- Advanced Lubrication Techniques
- Base Oils
- Viscosity and Viscosity Index
- Oxidation and Thermal Stability
- Air Release and Foam Control
- LubricantDegradation
- Lubricant Selection and Consolidation

Take Charge of Your Lubrication Program
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Want to learn more about this course? Download our brochure or visit Noria.com/train.

Get Certified
Machinery Lubrication II prepares students for ICML Level II MLT certification. Certification testing is available the Friday following the training. Register for your exam at LubeCouncil.org.
Take This Course If You Are Responsible For:

- Lubrication procurement
- Equipment maintenance
- Systems operation/management
- Checking meters/recording instruments
- Mechanical inspections
- Controlling lubricant contamination
- Troubleshooting equipment design/process/material
- Equipment reliability
- Production management
- Procedure/quality-control implementation
- Identifying cost-saving methods

Get Certified
Certification testing is the Friday following your training and conducted by the International Council for Machinery Lubrication.

Which Certifications?
Completion of Machinery Lubrication I and Machinery Lubrication II will prepare you for Level I Machine Lubrication Technician (MLT) and Level II Machine Lubrication Technician (MLT) ICML certification exams.

What Is ICML?
The International Council for Machinery Lubrication (ICML) is a vendor-neutral, not-for-profit organization founded to facilitate the growth and development of machine lubrication as a technical field of endeavor. In addition to other activities, ICML offers skill certification testing for individuals in the fields of machine condition monitoring, lubrication and oil analysis.

"...the information I learned can improve our hydraulic systems by 40%."
-Vernon Player, PDM Tech, International Paper

For dates, complete course description or to enroll, visit Noria.com/train or call 1-800-597-5460
OIL ANALYSIS REPORT
INTERPRETATION WORKSHOP

Course Description
High-quality oil analysis is one of the most valuable tools in the condition-monitoring toolbox. Oil analysis labs work hard to place critical machine condition data at your fingertips, but it’s up to you to take it the rest of the way. In this course, you will learn a systematic approach to translating oil analysis reports into actionable maintenance decisions. You will learn how to select the right tests for measuring the right data points for specific processes, environments and machine conditions. The course also touches on achieving accurate and consistent data collection, removing data noise to accurately identify false results, elemental analysis interpretation, interpreting metallurgical composition combinations to identify wear modes, setting key performance indicators (KPIs) and alarm limits.

Stop Wasting Money on Oil Analysis
Oil analysis isn’t cheap, and neither is the equipment on which it reveals information. Every year, industrial plants pay millions of dollars for commercial laboratories to perform analysis on used and new oil samples. Unfortunately, most of the plant personnel who receive these lab reports do not understand the basics of how to interpret them. In this course, you will learn how to mine your oil analysis data to make confident maintenance decisions.

Training Options
• Public
• Onsite

Course Topics
• Using trend report results to identify potential lubricant failures
• Identifying machine wear and failure modes from report data
• Determining when to change, clean or restore lubricant properties
• Identifying when additives have been depleted
• Using elemental analysis results to determine wear locations and mechanisms
• Selecting correct test packages for collecting meaningful data on in-service lubricants
• Extracting meaningful analysis from test reports
• Determining lubricant condition and actions to ensure optimum lubricant performance
• Identifying when the environment and operation have impacted the lubricant
• Applying a systematic approach to reviewing test results and setting next steps
• Identifying data noise from improper lubricant sampling and diagnosing potential sources
• Identifying a quality lab based upon key standards
• Integrating field test and lab analysis results for developing a lubricant health scorecard
• Applying a systematic approach for quick and effective data interpretation
• Interpreting results for determining base oil and additive health, process and environmental contamination, filter performance and machine wear
Reduce Data Interpretation Errors

Even if you do everything else right, the success of an oil analysis program always comes down to correct interpretation of test data. In this course you’ll learn a systematic approach to translating your oil analysis data into actionable information. You’ll learn how to get the most from your oil analysis program and stop jumping to conclusions too early in the process, reducing errors in interpretation.

Are You Catching Critical Early Warning Signals?

Properly established alarm limits are warning flairs that signal your machine is in trouble. There’s no time to waste – immediate troubleshooting must take place and the problem found before it is too late. If alarm limits aren’t set precisely, the results could be disastrous. Learn how to correctly position alarm limits for specific machine types to ensure you’ll receive critical early warnings of impending failures and root cause conditions.

Who Should Attend?

• Machinery Lubricant Analysts
• Lubrication Program Managers
• Lubricant Lab Personnel
• Reliability Engineers
• Predictive Maintenance Specialists

If You Use Any Of These Machines

• Gearboxes
• Hydraulic Systems
• Compressors
• Final Drives
• Rolling Mills
• Electric Motors
• Paper Machines
• Diesel Engines
• Blowers/Fans
• Process Pumps
• Gas Turbines
• Steam Turbines

For dates, complete course description, or to enroll visit Noria.com/train or call 1-800-597-5460
Uncover the Finer Aspects of Contamination Control and Comprehensive Oil Analysis

Oil Analysis II (OA II) approaches lubrication excellence through the critical information to be gleaned from oil analysis. By starting this course, you will understand the basic analysis procedures from ML I, and learn how to combine and apply these for more advanced strategies in conducting impactful predictive maintenance.

In OA II, you will gain everything needed to properly sample, monitor health and detect additive, thermal and particle factors that degrade lubricants via onsite tests and lab analysis. Taking knowledge from an oil analysis lab report, you will develop a proactive line of defense against failures, factoring lab findings into your own onsite analyses for more precise, timely maintenance.

By reviewing case studies, reading and interpreting oil analysis reports and participating in group problem-solving exercises, you will delve into the best practices of oil sampling, learn the fundamentals for conducting effective fluid analysis and become adept in analyzing lubrication systems for optimal efficiency and savings, ensuring that machine/fluid health, lubrication procedures and objectives reflect the ideal for the plant, its personnel and the bottom line.

Want to learn more about this course? Download our brochure or visit Noria.com/train.

Training Options

• Public
• Onsite

Course Topics

• Lubricant Health Monitoring
• Oil Analysis Fundamentals
• Oil Sampling – The Very Best Practices
• Fluid Properties Analysis
• Contamination Control and Proactive Maintenance
• Fault Detection and Wear Particle Analysis
• Instrument-free Onsite Tests
• Interactive Case Studies Workshop
• Test Results and Oil Analysis Report Interpretation

Practice In Class

Oil Analysis II includes practice oil analysis reports and individual and group participation in problem-solving exercises.

Get Certified

Oil Analysis II prepares students for ICML Level II MLA certification. Certification testing is available the Friday following the training. Register for your exam at LubeCouncil.org.
This is an outstanding course in understanding the desired state and use of oil and how to determine the best practices. I wish I would have taken it a year and a half ago.

- Derik Williams, Engineer, US Army CERDEC

Don’t Forget Your Study Packet

The Level II MLA Certification Study Packet is designed to prepare students for ICML Level II MLA certification. The packet includes:

**Level II MLA Flash Cards** - 440+ flash cards designed in preparation for the ICML Level II MLA certification exam.

**Oil Analysis Basics** - With 90+ illustrations, figures and look-up tables, this book presents the fundamentals of oil analysis for machinery condition monitoring in an easy-to-understand format. The book covers everything from how to take a proper oil sample to how to select a test slate for your applications.

**Wear Debris Analysis** - With 70+ illustrations, figures and tables, this book offers a practical look at wear debris and wear particle analysis in many forms.

**Machinery Oil Analysis** - This unique, in-depth analysis presents the entire practice of oil analysis as a condition monitoring tool for machines. The book also describes the what, when, where and how-to for machinery lubrication concepts, machinery failure and maintenance concepts, machinery failure modes, oil sampling and testing, plus statistical analysis and data interpretation.

Add the Study Packet to your course registration, or visit us at store.noria.com.

Take This Course If You Are Responsible For:

- Resource management
- Equipment maintenance
- Systems operation/management
- Lubricant health and cleanliness targets
- Mechanical inspections
- Diagnostics and equipment troubleshooting
- Efficiency initiatives/design
- Quality-control implementation
- Operations planning
- Sensor selections/installation
- Lubrication program effectiveness
- Choosing test slates

For dates, complete course description or to enroll, visit Noria.com/train or call 1-800-597-5460
Master Advanced Analysis

OIL ANALYSIS III

Take the Next Steps in Transforming Your Oil Analysis

Designed as a more in-depth look into this specialized field, Oil Analysis III (OA III) gives you the tools and education to develop, implement and sustain a first-rate, comprehensive oil analysis program. Merging the machine lubrication and oil analysis focuses of course prerequisites, OA III trains you to diagnose problems like contamination, corrosion and additive depletion – even with limited test results or difficult machines.

Through this course, you will compare detection and cost benefits(drawbacks for any type of lab test to select the most precise option for your needs. You will be able to gather extensive data on a lubrication program, make informed decisions and maintain the program as a major company asset. You will also gain strategies for applying your data and analysis to build strong proposals for improvement projects and calculate accurate return on investment predictions.

By completing OA III, you will attain the highest level of expertise and join the elite ranks of others who create or assess new oil analysis programs within any industrial workplace.

Want to learn more about this course? Download our brochure or visit Noria.com/train.

Training Options

- Public
- Onsite

Course Topics

- Understanding and Analyzing Machine Wear
- Integrating Oil Analysis with Vibration Analysis
- Fluid Properties Analysis
- Additive Depletion
- Contamination Analysis
- Grease Analysis
- Onsite Oil Analysis Options
- Designing an Oil Analysis Program
- Cost/Benefit Analysis

Practice In Class

Oil Analysis III includes practice oil analysis reports and individual and group participation in problem-solving exercises.

Get Certified

Oil Analysis III prepares students for ICML Level III MLA certification. Certification testing is available the Friday following the training. Register for your exam at LubeCouncil.org.
Take This Course If You Are Responsible For:

- Systems operation/management
- Operations
- Equipment maintenance
- Testing samples and interpreting results
- Mechanical inspections
- Diagnostics

- Troubleshooting equipment design/process/material
- Efficient utilization design
- Procedure/quality-control implementation
- Cost/benefit analysis
- Quality-control analysis

Suggested Reading

Machinery Oil Analysis Methods, Automation & Benefits - This book uniquely presents the entire practice of oil analysis as a condition monitoring tool for machines.

Wear Particle Atlas - A guide to wear particle analysis, this guide contains photographs of typical wear particles found in used lubricating oil, illustrative case histories and operational procedures for wear debris analysis.

You can purchase these books online at Store.Noria.com.

Avoid Costly Mistakes And Reap The Benefits Of Good Oil Sampling

A small misstep when installing sampling ports, performing oil sampling or choosing lubricants can translate into expensive problems. For most facilities, these mistakes are only apparent after problems arise or through expert analysis. For example, a large steel mill installed 1,200 new sampling ports and, after gathering strange data on multiple occasions, learned they had been placed in the wrong locations.

Another Noria customer had been conducting oil analysis for years but was still unable to detect bearing failures that shut down production. The company discovered that the tests being conducted could only identify degraded or wrong lubricants - not impending failure.

Successful oil sampling requires know-how. Improper sampling port placement, running the wrong tests, poorly collected samples and more can compromise accuracy or even eliminate valuable information. Noria can lend you the expertise to avoid these costly mistakes so you can reap the full benefits of good oil sampling.

I was amazed of the information that’s out there, and the techniques or tests that can be taken for oil analyses.

-Reuben Clowdis, Lubrication Tech, Huber Engineered Woods, LLC
Lubrication Program Development

Noria’s Lubrication Development Program (LPD) is a comprehensive lubrication overhaul of your facility. Starting with a 540-point assessment of your existing lubrication practices and materials, we use our findings to detail your “roadmap” to lubrication excellence. After developing a custom lubrication program, Noria experts then deliver detailed instructions for maintenance routes, hardware modifications, lubricant types and procedures. We also make recommendations for redesigning your lubricant storage area to preserve lubricant quality and maximize space.

For facilities needing to tap into Noria’s network of skilled lubrication and oil analysis professionals, Workforce Solutions is the lubrication labor outsourcing division of Noria Corporation. We place skilled personnel at your facilities on a full-time or short-term basis to manage your lubrication program and/or execute aspects of machinery lubrication and oil analysis for more details visit:

Noria.com/serve/workforce-solutions
**Failure Investigation**

Machine and lubricant failures—those are words no one likes, but there is a solution. Noria’s network of expert investigators covers a multitude of industries and applications. Our technical consulting team has decades of experience in root cause analysis, tribological studies, lubricant analysis, debris/wear particle identification, metallography and more. Our failure investigators will provide the answers and solutions to quickly and efficiently identify the cause to ensure a complete and permanent fix.

**Technical Consulting**

Lubrication-enabled reliability is Noria's core mission; we supply answers and advice for any reliability issue about lubrication. Over the years, Noria technical consultants have provided expert witnessing and forensic investigations, laboratory studies, benchmarking and specialized troubleshooting on a variety of machine parts and systems.

**For More Information, Call 800-597-5460**

**Education & Training**

To achieve plant-wide lubrication excellence, Noria can train all personnel—from those with no technical background to those with specialized roles. Noria offers five nationally recognized courses on machinery lubrication and oil analysis, with four of these containing certification preparation. For more details visit:

*Noria.com/train*
ONLINE LEARNING

We realize scheduled get hectic. That’s why Noria offers three courses online: Machinery Lubrication I, Machinery Lubrication II and Food Processing Equipment Lubrication. With our online learning, you receive:

• **Flexible Certification Preparation**: Gain the right understanding and steps for excellent condition-based maintenance, prepare for a certification test and do it all on your own time – whenever it is best for you.

• **Onboarding**: Use this training for onboarding new employees or to get your team up to speed quickly, efficiently and in alignment with your company culture, skills requirements and performance expectations.

• **Self-paced**: Log in anywhere, anytime on your customized schedule for one year. Play, pause, rewind and replay as often as needed. Learn while maintaining plant and operational schedules. ADA-compliant closed captioning is available.

• **Pre-/Post-assessment Quizzes**: Track your knowledge and understanding through each section with quizzes designed to show your progress and areas that may require further attention.

For more information, visit Noria.com/train or call 1-800-597-5460.

### Available Courses
- Machinery Lubrication I
- Machinery Lubrication II
- Food Processing Equipment Lubrication

### Key Features
- 125-question pre- and post-assessments for Machinery Lubrication I and Machinery Lubrication II
- Knowledge checks for each section to evaluate your understanding and ensure you know what to work on before moving forward
- Step-by-step interactive demonstrations of common lubricant analysis test for Machinery Lubrication I and Machinery Lubrication II
- SCORM compliant, tablet ready
- Includes closed captioning
- Machinery Lubrication I and Machinery Lubrication II meets the training requirements for the ICML MLA and MLT Level I certifications

### Why Train Online?

**Affordable**: Reduce training costs and improve productivity.

**Flexible**: Anytime, anywhere. Online training enables your team to learn at their own pace.

**Easy To Use**: Noria’s simple click-and-watch training method is easy for anyone to use.

**Course Manual**: Downloadable PDF manual for future reference.
Available Courses

- Machinery Lubrication I
- Machinery Lubrication II
- Food Processing Equipment Lubrication

Available Courses

- Industrial Lubrication Fundamentals
- Machinery Lubrication I & II
- Oil Analysis II & III

Reliability Skills Series

Quickly provide fundamental and best-practice training to everyone in your plant or your entire company with these great online lessons.

- How to Use a Grease Gun
- How to Grease a Motor Bearing
- Introduction to Lubrication Fundamentals
- Best Practices for Oil Sampling
- Best Practices for Lubricant Storage and Handling
- Lubrication Basics for Machinery Operators

Online Training

Bring online machinery lubrication and reliable skills training to your entire company through Enterprise Online Learning. We can host the training content on your Learning Management System (LMS) or provide a private, customized learning portal for your team. Our online learning solutions provide the following features:

- Monitor learning progress
- Train on your team’s schedule
- Verify skills
- Prepare for industry certification
- Reduce travel expenses
- And more!

All modules are compliant with all training industry standards, and we can successfully implement the following reporting formats: AICC, SCORM 1.2 and xAPI (Tin Can). If you don’t have an LMS, ask us about a no-hassle, branded solution for your organization.

Private Onsite Training

Looking for a personalized training plan for your facility? We offer onsite training to meet your company’s schedules, goals and budget needs.

Online training allows for personalized training with examples from onsite equipment, allowing employees to rotate through consecutive one-day trainings and bring personnel from multiple plants to one onsite training. Whether you have 15 people or 500, we are committed to providing options that will have the smallest impact on your production.

For more information, visit Noria.com/train or call 1-800-597-5460.
TRAINING MATTERS

Find the training that works for you. Noria’s machinery lubrication and oil analysis training courses offer something for all levels of expertise, from beginners to experienced technicians and engineers. Enroll today to learn precision lubrication skills for maximizing machine reliability. For dates and locations, check out Noria.com/train.