

The Real Cost of Poor Machine Lubrication Lies Just Below The Surface!

“Charting your course to improved productivity begins with knowledge.”



**Help Your People
Develop Skill in the
Foundational Practice
of Machine Lubrication**

See Inside...



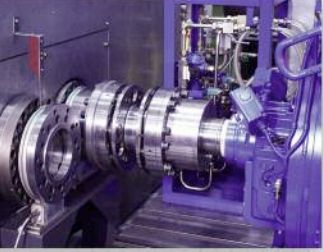
3-Day Workshop

Precision Lubrication Training Seminar

Do you arrive at your site each day and first check to see what failed during the night?

Do you arrive each day expecting that the work that is planned will be replaced by the tyranny of the moment?

Does the term 'Daily Grind' have real meaning for your lubricated machines?



In the modern hyper-competitive manufacturing environment even highly efficient organizations must figure out how to do more work in less time. With the current, and escalating, labor shortfall, the struggle to 'cover all of the bases' will intensify. One obvious option is to limit the size and scope of machine care, but accomplishing this without sacrificing reliability requires both **advanced knowledge** and **practical expertise**. A better option is to improve machine health by implementing *Precision Lubrication Practices*.

In this course maintenance personnel will consider the impact that high quality lubrication practices can have on machine health and reliability. Managers, Engineers and Technicians will see why machine lubrication activities should move from 'something that must be done' to 'The Leading Edge of Machine Reliability', and will begin to understand how to transform the existing lubrication program from modest and reactive to thorough, accurate and proactive.

Gain control over the lubrication process and you will begin to gain control over your daily routine.

If you have any of the following equipment, you should attend this course:

- Blowers/Fans
- Compressors
- Gas turbines
- Gearboxes
- Hydraulic systems
- Motor bearings
- Paper machines
- Process pumps
- Rolling mills
- Steam turbines

Who should attend this course?

- Equipment Operators
- Lubrication Technicians
- Lubrication Engineers
- Machine Reliability Technicians
- Equipment Operators
- Maintenance Managers
- Maintenance Supervisors
- Reliability Engineers
- Operations Mangers
- Oil Sampler

Companies who have benefited from seminar:

- Anhueser-Bush Inc.
- Bowater Paper Inc.
- Buzzi Unicem USA
- Citgo Corporation
- Coors Brewing Company
- Electric Energy, Inc.
- General Physics
- Georgia Pacific
- Getrag
- Irving Tissue
- Kimberly-Clark
- McCain Foods
- Mosaic Incorporated
- Rayonier Paper Co.
- Suncor
- Sunocco
- Valero Refining and more...



PrecisionLubrication.com



**4-Day
Workshop**

How to Build a Precision Lubrication Program

A Company Cannot Cost-Cut Its Way to Profitability.

First and foremost, restoring and maintaining a profitable manufacturing business requires dependable machine availability. Machine availability is lost for a number of reasons, many that have nothing to do with machine care. Unfortunately, losses associated with 'normal wear' are still far too common, and these preventable losses sap the strength and health from every manufacturing enterprise.

Every journeyman mechanic or maintenance engineer worth his weight in salt knows in his heart that the machine lubrication practice is directly responsible of component wear. The bad news is that few understand how to stop these slow, continuous, maddening losses. The good news is that following a systematic **Precision Lubrication** process can enable management to greatly reduce 'normal wear', and limit the associated production losses.

Precision Lubrication is unique for each production site, and cannot be achieved applying a 'one Best Practice fits all requirements' approach. A new interactive seminar, *Developing Precision Lubrication*, is now available to help reliability minded maintenance professionals design, build and execute practices that are the best possible balance for each and every production site.

In this seminar **YOU** will **Take Action** that can change your plant's future!

In This 4-Day Event You Will Learn How To:

- Improve competitiveness by improving machine health and productivity instead of squeezing maintenance budgets.
- Review a systematic and balanced process for evaluating and selecting a supplier.
- Analyze best ways to warehouse products, including bulk container selection, locating warehouse and open storage supply, selecting handling tools, and other important storage and handling considerations.
- Evaluate each machine's importance relative to your company's environmental, health, safety, production and maintenance requirements.
- Learn the process for selecting lubricants that fit the operating requirements for all machine components.
- Consider the power and limitations of manual delivery systems, as well as the variety of design options available for automatic lubricant delivery of both oil and grease.
- Understand the methods used within the industry to characterize both new and used lubricant properties.
- Construct test slates and alarm limit profiles for machines that are identified as critical.
- Investigate how to properly collect samples, including consideration for port locations, port type, port installation, sample frequency and environmental conditions.
- Define the causes and effects of lubricant contamination.
- Create a simple but orderly method for documentation that can serve as a basis for a company's Machine Lubrication Bible.

ENROLL TODAY! CALL 615.771.6030



**Design...
Build...
Execute...**

**A Precision
Lubrication
Program**



Charting Your Course To Improved Productivity Begins With Knowledge.

*These course can save your company thousands!
See Inside for details...*

THREE & FOUR DAY TRAINING

Precision Lubrication Training is offered as a 3-day training course, and **Building A Precision Lubrication Program** is offered as a 4-day training course. Both the three-day and four-day training provides: how-to examples, hands-on exercises, practical case studies, peer group discussions and workshops, and short quizzes to verify and improve material comprehension.

REGISTRATION FEES

The fee for the three-day **Precision Machinery Lubrication Training** is \$1200. Your seminar fee provides you the knowledge you need to bring your existing lubrication program from modest and reactive to thorough and proactive, and includes a comprehensive step-by-step manual, breakfast, lunch and refreshments each day.

The fee for the four-day **Precision Machinery Lubrication Training** is \$1400. Your seminar fee provides you the "how to" on designing, building and executing a Precision Lubrication Program, a comprehensive step-by-step manual, breakfast, lunch and refreshments each day.

REGISTRATION POLICY

REGISTER NOW! If your schedule changes, you may attend a different seminar or send a substitute at no charge. Cancellations received up to 14 calendar days before the seminar are refundable. After that, seminar fees will be credited to your account for use at another seminar.

Test Preparation

This course provides pre and post comprehensive preparation exams that are similar in length and structure to ICML's examination. Also, fill in-the-blank quizzes will be distributed following each completed section to help students verify and improve material comprehension.



ICML Certification Available: MLT-I, MLT-II, MLA-I

The International Council for Machinery Lubrication (ICML) certification is available the Friday after training. The training addresses the entire body of knowledge for Machinery Lubrication Technician Level Level II, and a significant portion of MLA-I and MLT-I. Qualified attendees may take the ICML certification examination, either MLT-I, MLT-II, or MLA-I, by registering at www.lube-council.org or 918.259.2950.

About Your INSTRUCTOR

Mike Johnson, CMRP, CLS, MLT-II, MLA-1

Mike has 23 years of practical experience in the field of industrial lubrication and equipment reliability management. He has assisted in developing reliability improvement strategies and implementing reliability centered machine lubrication programs for many well known multi-national manufacturers, including Cargill, International Paper, Ford Motors, Goodyear, General Mills, Saturn, Southdown, Chemetals, Arcadian Group, Diesel Recon, and many others.

Mike has an extensive background in theoretical and practical tribology and uses this knowledge assisting organizations that want to improve machine reliability through training, in-plant coaching, failure analysis, and through advice and support in developing standards for precision lubrication practices.



GROUP RATES

Team participation is welcomed and encouraged. Anyone within a production site that is involved in lubrications should attend this seminar. Group rates are available for three or more attendees from the same organization:

- 3 attendees - 10% discount
- 5 or more attendees - 20% discount

PRIVATE TRAINING

Arrange to have AMRRI conduct our **Developing Precision Lubrication Training** onsite, at your facility, to a group of your employees. Exclusive focused training combined with savings on travel time and expenses.

SEMINAR SCHEDULE

All sessions are scheduled from 8:00 am - 4:00 pm. A continental breakfast is provided as well as coffee and beverages. Lunch is from 12:00 pm - 12:45 pm and is included in the seminar fee.

Call Us For These Additional AMRRI Company Services:

Training

- Private, Public
- Custom Development

Failure Analysis

Effectiveness Assessment

- Program Review
- Gap Analysis
- Strategic Planning

Lubrication Practices Development

- Machine Criticality Analysis
- Machine Lubricant Requirements Analysis
- Lubrication Practices SOP Development
- Route Development, Planning and Scheduling

Lubrication Program Management

- Contract Development, Scheduling, Supervision

Turnkey Contract Lubrication Services

- Complete Program Development and Deployment
- Contract Application, Removal and Management



Advanced Machine Reliability Resources