

TRIBOLOGIK® **NEWSLETTER**

ISO 17025:2005

www.tribologik.com

June 2016

New Training Session **Machine Lubricant Analyst Level II and III Preparation Class**

Dates: Monday September 12 to Thursday Sept 15, 2016
8:00 AM to 4:00 PM

Price: US \$1 395, lunch and coffee included

Location: Tribologik Corporation
1212, 172nd St.
Hammond, IN 46321

Information: Jaime Burkhard
jaime@tribologik.com
Cell 260.579.5424
Office: 219.228.4844 x 204

Certification Exam (Optional): International Council for Machinery Lubrication
Friday, September 16, 2016, 8:30 AM- 11:30 AM
US \$275 extra

Exam registration/payment: No later than **2 weeks before session**
On ICML website
<http://lubecouncil.org>

In Partnership with AMRRI

Following the success of the March 2016 Machine Lubricant Analyst Level I preparation class, we have decided to continue with Level II and III, in partnership with *Advanced Machine Reliability Resources Inc.* (AMRRI).



This new session is the direct result of PMC/Tribologik's commitment to promoting and training on the best lubrication, maintenance management and oil analysis practices.

The September 2016 class will be taught by *Matt Spurlock*, whose March presentation had been highly appreciated by all attendees.

Matt is AMRRI's VP of Operations and Technology and lead trainer.



MLA Level II and III Course Outline

The Level II MLA Body of Knowledge is an outline of concepts that a candidate shall have in order to pass the exam, in accordance with ISO 18436-4, Category II and III respectively, Annex A.

Lubricant roles and functions

- Base oil
- Additive functions
- Synthetic lubricants
- Lubrication regimes

Maintenance Strategies

- Fundamental aspects of Reliability-Centered Maintenance (RCM)
- Fundamental aspects of Condition-Based Maintenance (CBM)

Oil Sampling

- Objectives for lube oil sampling
- Equipment specific sampling :
- Sampling methods
- Managing interference
- Sampling process management

Lubricant health monitoring

- Lubricant failure mechanisms
- Testing for wrong or mixed lubricants
- Fluid properties test methods and measurement units
- Oxidative base oil failure
- Thermal base oil failure
- Additive depletion/degradation
- Detecting wrong lubricant addition

Lubricant contamination measurement and control

- Particle contamination
- Moisture contamination
- Glycol coolant contamination
- Soot contamination
- Fuel contamination (fuel dilution in oil)
- Air contamination (air in oil)

Wear Debris Monitoring and Analysis

- Common wear mechanisms
- Common Machine-specific Wear Modes
- Detecting abnormal wear
- Wear debris analysis
- Ferrous Density
- Analytical Ferrography

Oil analysis program development and program management

- Machine-specific test slate selection
- Optimizing frequency of analysis
- Setting alarms and limits
- Managing oil analysis information
- Creating and managing oil analysis procedures
- Scoping oil analysis training for reliability technician, trades people and management
- Performing cost/benefit analysis for oil analysis and contamination control program
- Quality Assurance

Case Studies – Team Review and Presentation of Solution

Please contact Jaime Burkhard for additional information
jaime@tribologik.com - Cell 260.579.5424 - Office: 219.228.4844 x 204

Or go to :<http://www.tribologik.com/training.php>

info@tribologik.com

Your Equipment's Best Friends