

Metals Industry Lubrication Workshop



Steel, aluminum, and metalworking present unique challenges to equipment reliability and lubrication of these capital-intensive production environments. Gearboxes, roll bearings, wire drawing dies, machining centers, hydraulic reservoirs and electric motors are all operated in an environment that frequently includes very high temperatures, corrosive chemicals and the accumulation of dirt and once molten debris in oils and greases. When an experienced and capable workforce is armed with the knowledge of lubrication best practices including filtration, lubricant sampling and analysis, and condition-based lubrication replenishment, life extension of critical components and reduction in O&M costs can be substantial.

Metals professionals will gather for a 2-Day workshop to tackle machinery care and reliability improvement issues through laboratory time, classroom workshops and hands-on training. The goal of this workshop will be to share and learn best practices in the reliability-based lubrication and lubricant analysis techniques, with the goal of delivering cost-saving solutions to the attendees and their companies. A tour of the nearby IWM Wire Drawing facility is included.

Who Should Attend:

Plant Supervisors, Plant Engineers, Reliability Engineers, Plant Managers, Maintenance Managers, Mechanical Engineers, Machine Lubrication Engineers, Machine Lubrication Technicians, Machine Lubrication Analysts, & Training Coordinators, Manufacturers, & Metal Fabricators

All training occurs at York College's J.D. Brown Entrepreneurship Center at King's Mill Depot, 410 Kings Mill Road, York, Pennsylvania



Contact MRG Labs for more
information!
717-843-8884

WORKSHOP SESSIONS

- 1. Lubricant Analysis Testing**
 - Lubricant Health
 - Contamination Control
 - Wear Debris Analysis
- 2. Specialized Testing for High Temp. Oils and Greases**
 - Wire Drawing Lubricant Analysis
 - Example reports submitted by participants
- 3. Contamination Control**
 - Contaminant Quantification
 - Tubing Machinery Lube Analysis
 - Magnetic and other methods for contaminant removal
 - High Temperature Induced Contaminants
 - Microbial Detection and Remediation
- 4. Machine Retrofits [Hands-On]**
 - Splash Bath & Circulating Systems
 - Breathers and Filters
 - New tools for oil and grease sampling
- 5. Automatic Lubrication Systems**
 - Parallel and Progressive Auto Lubers
 - Cost-Benefit Analysis for Autoluber Systems
 - Advanced Maintenance and Troubleshooting
- 6. Building Work Practices in a Digital World**
 - Machinery and System Surveys
 - Building Lubrication Routes
 - Software and electronic tools
 - Using [MiniTab](#) & other advanced tools for Predictive Analytics in Lubrication
 - Reducing Cost of Lubrication through Optimization
- 7. Lubricant Analysis Sensors and Industry 4.0**
 - Advancements in Lubricant sensors
 - Managing Sensor Data for Optimal Decision Making
 - Creating criteria and setting action levels
 - Using NAVIGATOR and other software systems to use data to proactively manage assets