## Introduction

**ENHANCING PREDICTIVE MAINTENANCE THRU WEAR DEBRIS& OIL ANALYSIS** is a three-day intensive course structured after the Body of Knowledge specified by the International Council for Machinery Lubrication (ICML) for Machine Lubricant Analyst Level I and II certification. This course covers the skill and knowledge necessary for a lubrication technician or tradesperson involved in the installation of sampling hardware, extracting oil or grease samples, preparation of samples for shipping and analyses, understanding, identifying and troubleshooting lubricant contamination and degradation, abnormal machine wear conditions and the recommendation of corrective action. This course is also applicable to the skill and knowledge necessary for a lubrication technician or engineer to diagnoses abnormal machine or lubricant conditions and recommend corrective action, understand and communicate the importance of lubricant analysis in a reliability based maintenance program, deploy lubricant analysis with other predictive maintenance technologies to reduce component and machine failure rates and improve machine reliability and provide guidance to maintenance and operations personnel with regard to effective lubrication programs.

## Objectives

**With the knowledge and skills acquired at the end of the training program, the participants will be able to:**

- Diagnose abnormal machine and lubricant conditions to make  or advise appropriate decisions and oversee implementation.

- Understand and communicate to managers, supervisors and  lube technicians, the role of lubricant analysis in a Reliability-Centered Maintenance (RCM) program.

- Deploy proactive lubrication monitoring to reduce component  failure rate and extend machine life.

- Manage lubricant analysis information.

- Evaluate the performance of outside oil analysis services and make corrective changes where required.

- Use oil analysis to assure lubricant supplier quality conformance.

- Develop, deploy and manage procedures for lubricant sampling and analysis.

- Select on-site oil analysis instruments as required.

- Work within a multi-technology machine condition- monitoring program and facilitate synergistic integration.

- Financially rationalize the lubricant analysis program.

## Who Should Attend?

This course is designed for all personnel involved with lubrication and machine condition monitoring including:

- **Maintenance technicians,**
- **Lubrication technicians,**
- **Motor technicians,**
- **Pump technicians,**
- **Plant Engineer,**
- **Operation Managers,**
- **Maintenance Managers,**
- **Industrial and Manufacturing Engineer,**
- **Purchasing Managers,**
- **Chemical Engineers and anyone  interested in lubrication and oil analysis.**

## MLA II  ICML Certifications

**To become certified, an individual must meet the following requirements:**

- **Education and/or Experience** - Candidates must have 24 months experience in the field of lubricant-analysis-based machinery condition monitoring.  The months of experience are based on 16 hours minimum per month of sampling and analysis experience.

- **Hold Level I Machine Lubricant Analyst (MLA) certification.**

- **Training** - Candidate must have received 24 hours of documented formal training in oil analysis for machine condition monitoring as outlined in the Body of Knowledge of the MLA II. For more detail log on :  https://www.icmlonline.com/exams/Default.aspx?p=MLA2

**ENROLL TODAY!**
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