



Training Services

TRAINING SYLLABUS

FOR

**MACHINE LUBRICANT ANALYST LEVEL II
MLA II**

CERTIFICATION COURSE

March 2023

Machine Lubricant Analyst Level II MLA II

Certification Training
Duration: 24 Hours

Syllabus:

- Introduction
 - Welcome
 - Simple Ground Rules
 - Introductions
 - Review Agenda
- Lubricant Roles and Functions
 - Base-oils
 - Additive functions
 - Mineral and Synthetic Lubricants
 - Lubrication Regimes
- Oil Analysis and 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 oil sampling
 - Sampling methods
 - Managing interference
 - Sampling process management
- Lubricant Health Monitoring
 - Lubricant failure mechanisms
 - Testing for wrong lubricants
 - Fluid properties test methods – applications and limitations
- Lubricant Contamination Measurement and Control
 - Particle Contamination
 - Moisture Contamination
 - Glycol Coolant Contamination
 - Soot Contamination
 - Fuel Contamination
 - Air Contamination

NOTE: MLA I or equivalent is a pre-requisite

Maintenance & Reliability Fundamentals (CMRP)

Certification Training

Syllabus:

- Pillar 1 – Business and Management
 - Create strategic direction and plan for Maintenance and Reliability operations
 - Administer strategic plan
 - Measure performance
 - Manage organizational changes
 - Communicate with stakeholders
 - Manage environmental-health-safety risk
- Pillar 2 – Manufacturing Process Reliability
 - Understand the applicable processes
 - Apply process improvement techniques
 - Manage effects of change to processes and equipment
 - Maintain processes in accordance with applicable standards and regulations
- Pillar 3 – Equipment Reliability
 - Determine equipment reliability expectations
 - Evaluate equipment reliability and identify improvement opportunities
 - Establish a strategic plan to assure reliability of existing equipment
 - Establish a strategic plan to assure reliability of new equipment
 - Cost-justify selected plans for implementation
 - Implement selected plans to assure equipment reliability
 - Review reliability of equipment and adjust reliability strategy
- Pillar 4 – Organization and Leadership
 - Determine organizational requirements
 - Analyze organization capability
 - Develop the organization structure
 - Develop personnel
 - Lead and manage people
- Pillar 5 – Work Management
 - Identify, validate, and approve work
 - Prioritize work
 - Plan work
 - Schedule work
 - Execute work
 - Document work
 - Analyze work and follow-up
 - Measure work management performance
 - Plan and execute projects
 - Use information technologies effectively
 - Manage resources and materials