



MASTERING LUBRICATION ANALYSIS MANAGEMENT

MLAII

Learn how to implement best practice and get your lubrication management to World Class standards.

See for yourself how it all happens with a visit to an oil analysis laboratory.

A three day interactive training course to help you:

- ✓ understand the fundamentals of lubrication and oil analysis
- ✓ get more out of your lubrication strategy
- ✓ improve your oil analysis success
- ✓ increase reliability
- ✓ increase profits and turnover
- ✓ register and take ICML Exam on day four (optional)
- ✓ learn from the world's leading experts
- ✓ improve your quality goals
- ✓ ensure compliance with ISO9001/ ISO55000



TelLab

Course dates: 5th - 7th February 2018 (MLA II)

Venue: T.E. Laboratories, Loughmartin Business Park, Tullow, Co. Carlow.

Who Should Attend?

- ✓ Plant Managers
- ✓ Operations Managers
- ✓ Plant Engineers
- ✓ Reliability Engineers
- ✓ Lubrication Technicians
- ✓ Oil Analysis Practitioners
- ✓ Condition Monitoring Specialists
- ✓ Plant Operators
- ✓ Maintenance Technicians

Whatever your industry, if you are involved in some way with lubricants, this course is for you!

Course Content

The role of Lubrication and Oil Analysis in Reliability

- Maintenance strategies
- Maintenance PM benefits
- Reliability benefits
- Productivity benefits
- Financial benefits

Theory of Lubrication to include:

- Wear mechanisms (adhesive, abrasive, surface fatigue)
- Functions of a lubricant
- Lubrication regimes (boundary and thick film)
- Base stock options (mineral, semi-synthetic, synthetic and vegetable base)
- Additives and their functions
- Greases (basestocks, additives and thickeners)
- Addressing some common myths about oils such as cross-mixing, aftermarket additives, service life etc.

The role of Oil Analysis in a Reliability Programme

- Understanding oil analysis reports
- When to apply oil analysis
- Selecting when to use laboratory analysis, on-site analysis or online sensor technology
- Bottle sampling procedures for accurate laboratory analysis
- Lubricant condition monitoring (viscosity, AN/BN, oxidation and additive depletion)
- Contaminant monitoring (particles, moisture, fuel, soot and glycol)
- Machine health monitoring (elemental analysis, wear debris analysis and ferrography)
- Applying proactive and predictive targets and limits
- Choosing relevant tests
- Selecting oil analysis product and service providers
- Selecting diagnostic tools for machine and lubricant health checks
- Contamination awareness - measuring and monitoring

Get Qualified!

A qualification from ICML will aid compliance with your company's ISO 9001:2000 *Quality management systems - Requirements for training and qualification of personnel.*



The International Council for Machinery Lubrication, offering examinations that comply with the latest international standard ISO 18436-4:2008 *Condition monitoring and diagnostics of machines - Requirements for qualification and assessment of personnel - Part 4: Field lubricant analysis.*

Examination

Friday 8th February 2018. Register online for your MLA exams at www.lubecouncil.org

Venue

T.E. Laboratories, Loughmartin Business Park, Tullow, Co. Carlow.

Course Information

As part of the 3 day event, there will also be:

- A workshop session
- A visit to the Oil Analysis Laboratory
- Tutorial on Spectrotrack Oil analysis database
- Daily Lunch/Refreshments

2018 Course Date

5th - 7th February 2018 (MLA I)
Exam on 8th February

Venue

T.E. Laboratories, Loughmartin Business Park, Tullow, Co. Carlow.

Costs

- €1,150 per person exc. VAT. Super early bird booking at the discounted cost of €950 if booked and paid in full by:
 - Friday 21st December
 - Group discounts available.
- ICML Exam fee - €300.00

Note. The ICML is optional and at additional cost, register online www.lubecouncil.org.

What past attendees thought:

"The content was very informative and Martin's experience of real world applications made the material relevant and thoroughly enjoyable." – *Fleury Engineering*

"The course director presented an outstanding body of knowledge with great insights and a fantastic depth of knowledge." – *ARQ Asset Solutions*

"An excellent course, well presented and I am now more confident in reading lab reports. Never knew small improvements in oil storage and sampling could make a huge difference." – *ESB*

"Very indepth course, well presented by a very knowledgeable trainer." – *Translink*

"Course was very informative and really well presented. I especially enjoyed learning about oil sampling methods and oil analysis. There are many changes I will be highly recommending are brought about in the naval service ASAP to improve our own standards and ensure best practice for all samples. Really enjoyed the course and despite the varying background of a lot of the students I felt it was all made applicable" – *Irish Naval Service*

Transformer Oil Analysis Course

- Monitoring the condition of transformers through regular oil analysis
- Acquiring the knowledge to define and implement an adequate program of oil analysis to monitoring the condition of transformers
- Understanding and interpreting oil analysis reports and implementing maintenance recommendation
- One day course
- For other available courses visit our webpage

Reliability Ireland returns March 2019. Ireland's only predictive maintenance conference hosted by TellLab.

For more information visit our website www.reliabilityireland.ie



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