

Machinery Diagnostics Institute

MDI – Machinery Diagnostics Institute are worldwide professionals providing class room and virtual online interactive technical trainings, based in Queensland – Australia.

Teaching staff are real practitioners specialized in delivering knowledge of Machinery Diagnostics techniques from basic levels to the most advanced.

Helping technical teams to develop their knowledge, knowing how to best utilize the most advanced diagnostics techniques and improve site performance through delivering accredit trainings and guiding them to the best practices.



**Vibration
Analysis**



**Thermal
Imaging**



**Machinery
Lubrication**



**Ultrasound
Testing**



**Turbo-
Machinery
Analysis**



**Machinery
Balancing**



**Shaft
Alignment**



**Asset
Reliability**

OUR PARTNERS





Machinery Lubrication CAT I

ISO 18436 – MLA 1 / MLT 1

Machinery Lubrication Level I is a Four-day course, You will learn proven industry methods for selecting, storing, filtering, and testing lubricants to boost reliability and generate lasting results in machine efficiency/maintenance.

As well as gaining a better understanding of oil analysis, so they can align their efforts with those of maintenance professionals or oil analysis experts.

MDI - Machinery Diagnostics Institute Provides this training,

Accredit certification of successful completion is issued from **MDI – Australia** after the training

Accredit certification according to ISO 18436-4 is issued from **ICML – International Council for Machinery Lubrication** after passing the ICML examination

Machinery Lubrication – CAT I Training Main Topics:

- Maintenance Strategies
- Tribology Fundamentals
- Lubrication Construction
- Lubrication Viscosity
- Lubrication Additives
- Greases Fundamentals
- Lubrication Failure & Monitoring
- Oil Analysis Best Practice
- Lubrication Contamination
- Lubrication Contamination Control
- Lubricating Machinery - Oil Application
- Lubricating Machinery - Grease Application
- Lubrication Selection
(Bearing, Gears, Electric Motors, Automotive, Turbines, Compressors .. Etc.)
- Lubrication Storage & Handling
- Field Inspections & Tests

WHO SHOULD ATTEND ?

- The Machinery Lubrication I course is most beneficial for maintenance, reliability and operations professionals who are directly responsible for lubrication tasks.
- Planners, supervisors and managers and others can also gain valuable insights into lubrication program gaps, cost-saving opportunities and data-driven decision-making from this course.

Lubrication Best Practice Exercise

What is the missing "best practice" to transfer the oil from this barrel to the application ?
& What could be the alternatives ?

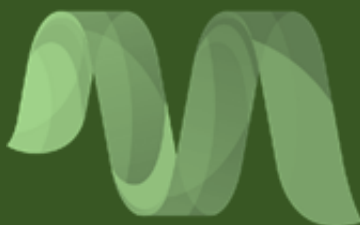
Below (Best Practice) should be followed in order to transfer the oil;

- Installing Breather filter on the 3/4" drum port.
- Tighten the pump to drum connector.
- Install filter after the pump
- Install Relieve valve after the pump
- Install coalescing filter on the air line.
- Install Air regulator with manual shut off valve on the air line.
- Tag transfer pump to ensure which type of oil used to prevent cross contamination with other type of oil.

Alternative of such Pump to apply oil to the machine is (Portable Filter Cart).

Captured by: *Aly Attia*

Machinery Diagnostics Institute



MDI - Machinery Diagnostics Institute - Gracemere, Queensland – Australia

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Web: www.mdiagnostics.net



Gain Accredited Certification

Post attendance of the Machinery Lubrication Analysis course for Four days and acquire more than 150 questions covering all the course topics

You will gain certification of successful course completion from MDI – Machinery Diagnostics Institute

This will make you eligible to apply for MLA 1 exam of ICML – International Council for Machinery Lubrication and join the list of Certified Professionals worldwide, becoming (Certified Machinery Lubrication Analyst)



Instructor & Course Testimonials

Highly positive feedback and recommendations from top professionals world-wide in the field of Reliability & Condition Monitoring

Mohamed Elshamy Mcs•CRL•CMRP•MLE •MSO•MLAII•IRTI•VAII•US1 • 1st
Reliability Engineer, John crane Middle East
1yr

It is not easy to illustrate an informative syllabus in a very simple way.
Congratulations on your great achievement and glad to be one of your first wave attendee. 🍌🍌

Like • 🗨️ 5 | Reply • 1 reply

Tarek Badr, P.E., Cat IV, • 1st
Senior Condition Monitoring Engineer
1mo

Aly Attia is one of the most talented and experienced in this field . Good luck dear **Aly Attia**

Love • 🗨️ 2 | Reply • 1 reply

Abdulla El Sherif • 1st
Rotating & Packaging Lead at ADNOC Group
11mo

Great to know. Bless you for taking the time and effort to share your vast knowledge 🙌🍌

Like • 🗨️ 1 | Reply • 1 reply

Christopher Goonai • 1st
Reliability & PDM Engineer | Risk Mitigation | Mecha...
1yr

Great sessions! **Aly Attia**

Like • 🗨️ 2 | Reply • 1 reply

Eslam hafez • 2nd
Senior Mechanical Engineer at SUEZ
1yr

Well done Aly , you are a great tutor

Support • 🗨️ 4 | Reply • 1 reply

Leston Bethelmy VCAT IV, ARP E, MLE, MLA III, MLT II • 1st
Lead Reliability and PdM Engineer | Experienced Me...
1yr

Very informative session. Well done **Aly Attia**

Support • 🗨️ 5 | Reply • 1 reply



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