



# LUBRIGARD

## LUBRICATION & OIL ANALYSIS SEMINARS

[WWW.LUBRIGARD.COM](http://WWW.LUBRIGARD.COM)



# LUBRICATION & OIL ANALYSIS SEMINARS

## COURSE SCHEDULE 2014

**ENROLL TODAY**  
**1-800-268-2131**

LUBRIGARD  
WILL TEACH  
YOU THE SKILLS  
TO MOVE YOUR  
MAINTENANCE  
PROGRAM FROM  
REACTIVE TO  
PROACTIVE.

**IF YOU ARE  
ASKING  
YOURSELF  
QUESTIONS  
THEN THIS  
SEMINAR IS FOR  
YOU**

I am faced with limited resources and a reduced budget. How can I manage my maintenance program more efficiently?

Where does oil analysis fit into my maintenance program and how do I make the most from what oil analysis is telling me?

Where do I learn proven procedures to run a world-class oil analysis program and how do I make the most from what oil analysis is telling me?

Our oil analysis program

# TRAINING SEMINARS THAT WILL CHANGE THE WAY YOU VIEW LUBRICATION & OIL ANALYSIS

Many companies have made oil analysis a successful tool within their maintenance program. For these companies creating a successful oil analysis program took years of experience to develop the knowledge to turn oil analysis data into appropriate maintenance actions. Developing proper oil analysis procedures, learning to properly interpret oil analysis data, and creating a corporate culture that embraced oil analysis was a long journey.

**LEARN HOW OTHER COMPANIES HAVE DEVELOPED SUCCESSFUL OIL ANALYSIS PROGRAMS**

Undoubtedly if you have not taken that journey you are not sure how oil analysis fits within your maintenance program, and you require the knowledge to make oil analysis more successful within your organization.

If you want to avoid making the mistakes these companies made, and if you want to learn the insights that these companies gained by trial and effort you need the training that Lubrigard offers.

**DEVELOP THE KNOWLEDGE TO KICK-START YOUR OWN OIL ANALYSIS PROGRAM**

The Lubrigard Oil Analysis and Advanced Oil Analysis courses will first teach you the fundamentals of oil analysis, then teach you the skills necessary to ensure the success of your own oil analysis program. This course goes beyond the basics and shows you the necessary strategies to improve your maintenance through the integration of oil analysis. In just three days you will gain the knowledge to significantly improve the way you do maintenance within your company.

**IMPROVE THE WAY YOU DO MAINTENANCE**



THE LUBRIGARD LUBRICATION AND OIL ANALYSIS SEMINAR HAS BEEN DESIGNED FOR RELIABILITY & LUBRICATION PROFESSIONALS WORKING TOWARDS OMA I / OMA II CERTIFICATION.

# DAY 1

## LUBRICANT FUNDAMENTALS

INTRODUCTION

FUNCTIONS OF LUBRICATING OIL

LUBRICATION FILMS

MINERAL OIL REFINING

## LUBRICANT PROPERTIES

*THIS MODULE PROVIDES AN UNDERSTANDING OF OIL PROPERTIES BY DECONSTRUCTING TECHNICAL DATA SHEETS FOR A NUMBER OF COMMON OIL PRODUCTS.*

VISCOSITY CLASSIFICATION (SAE, ISO, AGMA, NLGI)

OXIDATION & THERMAL STABILITY (AN, BN, RPVOT, RULER, TOST, FT-IR)

LOW TEMPERATURE OPERATION (POUR POINT)

BASE OIL CHARACTERISTICS (SPECIFIC / API GRAVITY, FLASH POINT, FT-IR)

AIR ENTRAINMENT (FOAM CHARACTERISTICS)

WATER SHEDDING & RUST AND CORROSION CONTROL (DEMULSIBILITY / SEPARABILITY)

## DETECTING CONTAMINATION

ELEMENTAL ANALYSIS (ICP, AA, XRF)

WEAR PARTICLE SCREENING (PQ, DR-FERR)

WEAR PARTICLE ANALYSIS (A-FERR, LNF, PDF, FDA)



## Join Companies who have benefited from Lubrigard Training Courses

Ainsworth  
Alcan  
Algonquin Power  
Atlantic Minerals  
Atlantic Packaging  
Basell  
Bearskin Airlines  
Boeing  
Cami Automotive  
Canadian Coast Guard  
Castrol Lubricants  
City of Toronto  
Compair

Daimler Chrysler  
Dept of National Defense  
Entek  
Euclid-Hitachi  
ExxonMobil Hibernia  
Faurecia  
Flakeboard  
Flightsafety Canada  
Ford  
Fuchs  
General Motors of Canada  
Georgia Pacific  
Hitachi

Honeywell  
Husky Injection Moulding  
Inco  
John Deere  
Kelloggs  
Lafarge Canada  
Liebherr  
Lovat  
Lubrication Engineers  
Manitoulin Transport  
Mobil Chemicals  
Ontario Power Generation  
Petro-Canada Lubricants

P&H Mine Pro  
Ryder Truck Rentals  
Safety Kleen  
Sandvik Tamrock  
SEW-Eurodrive  
Stelco - Lake Erie Steel  
Tembec  
Temple Pembroke  
Union Gas  
Valvoline Lubricants  
Wabush Mines  
Wajax Industries  
Wescast

# DAY 2

## PROGRAM MANAGEMENT

MAINTENANCE STRATEGIES  
THE ROLE OF OIL ANALYSIS  
SETTING PROGRAM GOALS  
OIL SAMPLING  
COMPLETING SAMPLE INFORMATION  
READING OIL ANALYSIS SAMPLE REPORTS

## INTERPRETATION OF CONTAMINATION AND LUBE DEGRADATION

*THIS MODULE PROVIDES THEORY ON OIL ANALYSIS DATA INTERPRETATION THROUGH REAL-LIFE CASE STUDIES.*

LUBRICANT DEGRADATION  
DETERMINING TAN/TBN/VISCOSITY LIMITS  
INTERPRETATION OF TAN/TBN/VISCOSITY RESULTS  
ADDITIVE DEPLETION  
CONTAMINATION  
SETTING ISO TARGETS AND ALARMS  
INTERPRETATION OF PARTICLE COUNT DATA  
SETTING WATER, GLYCOL, SOOT, FUEL LIMITS  
DETERMINING INCORRECT OIL TOP-UPS  
FERROGRAPHY/FERROUS DEBRIS

## WEAR PARTICLE ANALYSIS

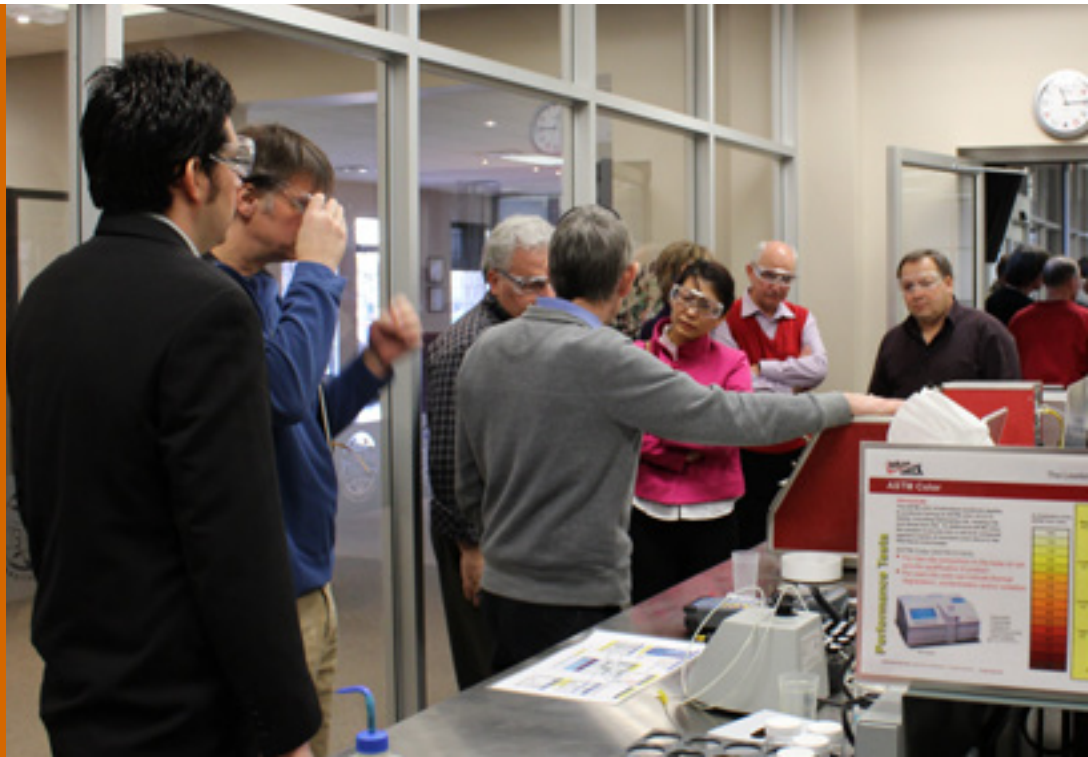
PARTICLE ANALYSIS TECHNIQUES  
FUNDAMENTALS OF WEAR PARTICLE MORPHOLOGY  
WEAR REGIMES  
FERROUS WEAR PARTICLES  
NON-FERROUS WEAR PARTICLES  
CONTAMINANTS AND LUBRICANT DEGRADATION  
DETERMINING ALLOY COMPOSITION OF WEAR METALS

## INTERPRETATION OF WEAR & FATIGUE

*THIS MODULE PROVIDES THEORY ON OIL ANALYSIS DATA INTERPRETATION THROUGH REAL-LIFE CASE STUDIES.*

UNDERSTANDING WEAR LIMITS  
DETERMINING WEAR LIMITS  
DETAILED WEAR CASE STUDIES

LUBRIGARD CAN TEACH  
YOU THE SKILLS TO MOVE  
YOUR MAINTENANCE  
PROGRAM FROM  
REACTIVE TO PROACTIVE.



# HERE IS WHAT OTHERS ARE SAYING ABOUT THIS SEMINAR

“A GOOD COMPLEMENT TO VIBRATION ANALYSIS. IT ALSO CONNECTS A WORKER WITH HIS MAINTENANCE ACTIVITIES.”

PIERRE PAQUET  
EMCO

“YOU HAVE AN EXCELLENT LUBRICATION TRAINING COURSE. WELL CRAFTED, A GOOD GUIDE. WELL EXPLAINED. I REALLY LIKED YOUR TRAINER.”

PASCAL LORTIE  
AUR RESOURCES

“ANYONE INVOLVED IN THE LUBRICATION DOMAIN SHOULD PARTICIPATE.”

JEAN MARTIN  
KRUGER INC.

“THE COURSE IS WELL STRUCTURED. MANY EXAMPLES OF REAL LIFE SITUATIONS. GOOD SOURCE OF INFORMATION. MANY PRACTICAL EXAMPLES FOR DAY TO DAY WORK.”

YVES TREMBLAY  
PETRO-CANADA

“THE COURSE IS VERY INTERESTING AND COMPLETES A MECHANICAL TRAINING, SUPPLYING MORE KNOWLEDGE TO LUBRICATION SPECIALISTS.”

JEAN VEILLEUX  
ABITIBI CONSOLIDATED



# LUBRICATION EXCELLENCE



Bill Quesnel is a longstanding member of the STLE developing his oil analysis experience with WearCheck International where he is currently the Vice-President of WearCheck Canada. Over his 15 years in the industry Bill has helped many large companies establish successful oil analysis programs, and having time and time again witnessed the need for lubrication management programs founded Lubrigard to provide clients with the necessary services, training and products to manage their lubricants effectively.

OMA I AND OMA II CERTIFIED

You can bring an oil analysis and equipment lubrication training courses on-site to your facility. On-site training courses can be customized to meet your specific training requirements. To enquire about an on-site training course at your facility call

1-800-268-2131.

For further information visit; <http://www.lubrigard.com/training>

## ON SITE TRAINING

# 2014 SCHEDULE

Courses will be held at Lubrigard Ltd  
1175 Appleby Line, Building C, Burlington, ON L7L 5H9

Seminar Dates (please check one)

- April 9-10, 2014  
 Oct 8-9, 2014

Hotel Accommodations supplied by the Hilton Garden Inn

985 Syscon Road, Burlington, ON L7L 5S3

+1 905-631-7000 fax +1 905-631-7010

<http://hiltongardeninn3.hilton.com/en/hotels/ontario/hilton-garden-inn-toronto-burlington-YYZBUGI/index.html>

For the latest information on training courses visit:

<http://www.lubrigard.com/training/>

## REGISTRATION FORM

The cost of the Lubrication & Advanced Oil Analysis Seminar (2 days):  
\$995 (plus applicable taxes)

I would like to write a STLE Certification Exam:

OMA Level I  OMA Level II  CLS

\*STLE Certification exams are held on the morning following course completion. All STLE Certification Exams are payable to the STLE ( members \$295 / non-members \$400 ). See [www.stle.org](http://www.stle.org) for more info.

Register online at

<https://www.lubrigard.com/training-2014-workshop-register.php>

Company Name \_\_\_\_\_

Contact Name \_\_\_\_\_

Contact Phone (\_\_\_\_) \_\_\_\_\_ Fax (\_\_\_\_) \_\_\_\_\_

E-Mail Address \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Prov \_\_\_\_\_ Zip/Postal \_\_\_\_\_

## ATTENDEES

First and Last Name	Phone Number	Email
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____

## PAYMENT OPTION

Cheque payable to Lubrigard Ltd. is enclosed.

Charge to:  Visa  MasterCard  American Express

Card Number \_\_\_\_\_ Expiry Date \_\_\_\_\_

Cardholder Name \_\_\_\_\_

Signature \_\_\_\_\_

Purchase order attached. P.O Number \_\_\_\_\_

## TO ENROLL

**CALL TOLL-FREE**  
1-800-268-2131

**FAX COMPLETED FORM**  
905-569-8605

**MAIL FORM & CHEQUE TO LUBRIGARD LTD.**  
C8-1175 APPLEBY LINE  
BURLINGTON, ON  
L7L 5H9  
FOR MORE INFORMATION  
[LUBRIGARD.COM/TRAINING](http://LUBRIGARD.COM/TRAINING)

WOULD YOU LIKE A  
LUBRIGARD  
REPRESENTATIVE TO  
CONTACT YOU?

YES  
 NO

