



**Tribology**

## 2011 Training Program Guide & Schedule



*Providing the tools you need to improve your maintenance program!*

## Program Overview

Our one-day, exclusive workshops are presented in a relaxed atmosphere where participants are encouraged to interact with our trainers and other maintenance professionals. You gain the knowledge and skills necessary to improve the oil, fuel, coolant, and condition monitoring sectors of your maintenance program. Implement practices and develop advanced skills that help you reduce maintenance costs and decrease downtime, improve the reliability, maximize the life, increase the resale value, and protect the warranty on your equipment.

### Who Should Attend

- All maintenance professionals
- Plant technicians
- Tradespeople and fitters
- Maintenance engineers
- Condition monitoring personnel
- Lubrication engineers

### Program Objectives

- Effective interpretation of analysis results
- Types and function of various additives
- Tests performed and their significance
- Indicators and causes of contamination

## Sample Agendas

### Oil Analysis & Condition Monitoring

- About ALS
- Training objectives and the role of oil analysis
- Classification and properties of oil
- Tests performed and their significance
- Oil cleanliness and particle analysis
- Taking an oil sample
- Troubleshooting and predictive maintenance
- Establishing specific alert levels
- Interpretation of results
- Webtrieve online software
- Case studies
- Review and questions

### Coolant Testing

- Engine coolants – changes through the years
- Properties of coolants
  - Conventional coolants
  - Extended life coolants (OAT technology)
  - Hybrid coolants (NOAT technology)
- Tests methods for coolants
- Proper coolant sampling techniques
- Symptoms of cooling system failure
- Coolant tests guidelines
- Coolant report review
- Toolbox tools to maintain cooling systems

### Fuel Testing

- Why test your fuel
- The importance of fuel cleanliness
- Classification and properties of fuel
- Fuel tests performed and their significance
- Fuel problem symptoms
- Proper fuel sampling techniques
- How to read the analysis report
- Review and questions



## 2011 Training Schedule

Date	Day	Location	Training Topic(s)
March 1	Tuesday	Phoenix, Arizona	Oil
April 5	Tuesday	Cleveland, Ohio	Oil
April 6	Wednesday	Cleveland, Ohio	Coolant & Fuel
May 3	Tuesday	Portland, Oregon	Oil
May 4	Wednesday	Portland, Oregon	Coolant & Fuel
June 7	Tuesday	Kansas City, Kansas	Oil
August 2	Tuesday	Edmonton, Alberta	Oil
August 3	Wednesday	Edmonton, Alberta	Coolant & Fuel
September 6	Tuesday	Reno, Nevada	Oil
October 4	Tuesday	Atlanta, Georgia	Oil
October 5	Wednesday	Atlanta, Georgia	Coolant & Fuel
November 1	Tuesday	Burlington, Ontario	Oil

## Meet Your Instructors



Greg Lewis has a mechanical background with over 20 years involvement in the mining, transport, and farming industries. He has hands-on experience as a qualified mechanic working

on both light and heavy machinery and later as an equipment maintenance planner. For the last 21 years, Greg has been employed with ALS Tribology as a diagnostician, laboratory manager, and an operations manager. Greg is a NATA (lab accreditation) signatory and a long standing member of STLE.



Ed Eckert, CLS, OMA I, has 19 years of experience in the oil analysis industry. His expertise in oil analysis is derived from his extensive history with ALS Tribology as laboratory manager,

diagnostician, technical service representative, and through his current position as diagnostics manager. Ed has earned both Certified Lubrication Specialist (CLS) and Oil Monitoring Analysis (OMA I) STLE certifications. His previous experience includes serving in the U.S. Navy as an Engineman (E-5).





# YES! PLEASE REGISTER ME FOR THE ALS ONE-DAY TRAINING COURSE SELECTED BELOW

~ REGISTER EARLY! **LIMITED ENROLLMENT, SMALL CLASS SIZES!** ~

**\$275 (USD) Registration Fee (per workshop)**

Registration includes a comprehensive set of printed training materials, lunch, and a tour of the laboratory.

### Personal Information

Full Name		Job Title	
Company Name			
Address			
City, State Zip			
Telephone Number		E-Mail Address	

### Workshop Information (please select training date(s) below)

<input type="checkbox"/>	Tuesday, March 1	Phoenix, Arizona	Oil Analysis
<input type="checkbox"/>	Tuesday, April 5	Cleveland, Ohio	Oil Analysis
<input type="checkbox"/>	Wednesday, April 6	Cleveland, Ohio	Coolant & Fuel
<input type="checkbox"/>	Tuesday, May 3	Portland, Oregon	Oil Analysis
<input type="checkbox"/>	Wednesday, May 4	Portland, Oregon	Coolant & Fuel
<input type="checkbox"/>	Tuesday, June 7	Kansas City, Kansas	Oil Analysis
<input type="checkbox"/>	Tuesday, August 2	Edmonton, Alberta	Oil Analysis
<input type="checkbox"/>	Wednesday, August 3	Edmonton, Alberta	Coolant & Fuel
<input type="checkbox"/>	Tuesday, September 6	Reno, Nevada	Oil Analysis
<input type="checkbox"/>	Tuesday, October 4	Atlanta, Georgia	Oil Analysis
<input type="checkbox"/>	Wednesday, October 5	Atlanta, Georgia	Coolant & Fuel
<input type="checkbox"/>	Tuesday, November 1	Burlington, Ontario	Oil Analysis

### Payment Information (\$275 per course checked above)

<input type="checkbox"/>	Check Enclosed ( <i>please make checks payable to <a href="#">ALS Tribology</a></i> )	Total Amount	_____
<input type="checkbox"/>	Credit Card	<input type="checkbox"/> Visa	<input type="checkbox"/> Master Card
		<input type="checkbox"/> American Express	
	Card Number	Expiration Date	
	Name on Card		
	Signature		
<input type="checkbox"/>	Purchase Order	PO Number	

<u>REGISTER: BY MAIL</u> ALS Tribology 10450 Stancliff Drive, Suite 210 Houston, Texas 77099	<u>FAX:</u> 281.599.0364	<u>PHONE:</u> 877.835.8437 281.599.1242	<u>EMAIL FORM:</u> <a href="mailto:rhonda.holstien@alstribology.com">rhonda.holstien@alstribology.com</a>
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**Right Solutions Right Partner**