



Tribology

2011 Australia Training Program Guide & Schedule



Oil Analysis

Condition Monitoring

Fuel Analysis

Coolant Testing

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 Global Training Schedule

Date	Day	Location	Training Topic(s)
March 18	Friday	Melbourne Australia	Oil
March 29	Tuesday	Auckland, New Zealand	Oil
March 31	Thursday	Wellington, New Zealand	Oil
May 19	Thursday	Perth, Australia	Oil
May 20	Friday	Brisbane, Australia	Oil
June 1	Wednesday	Tasmania, Australia	Oil
June 3	Friday	Melbourne, Australia	Oil
June 7	Tuesday	Sydney, Australia	Oil
June 23	Thursday	Brisbane, Australia	Oil
June 23	Thursday	Perth, Australia	Oil
July 12	Tuesday	Adelaide, Australia	Oil
August 18	Thursday	Perth, Australia	Oil
August 19	Friday	Brisbane, Australia	Oil
September 6	Tuesday	Sydney, Australia	Oil
September 23	Friday	Melbourne, Australia	Oil
October 19	Wednesday	Brisbane, Australia	Oil
October 20	Thursday	Perth, Australia	Oil
December 6	Tuesday	Sydney, Australia	Oil

Note: Please register your interest for coolant and fuel training courses by contacting your nearest ALS Tribology lab.

Meet Your Instructors

Zahir Shamsi has a degree in Mechanical Engineering and over 14 years of hands-on experience in the mining and construction equipment field. He has worked for Caterpillar dealerships in Asia and Australia and has been employed with ALS Tribology since 1995. Zahir has served in a variety of roles while with ALS, including technical support manager, regional manager, and his current position of operations manager for Australia and New Zealand. Zahir has conducted over 300 oil analysis training courses for ALS in the past 15 years.

Gary Blevins has worked in the oil analysis field since 1990, primarily serving customers through diagnoses, technical support, and most recently in a managerial capacity. Gary started his career in a diesel apprenticeship with a large company that services on-highway trucks and busses.

After successfully completing training, he went on to study mechanical engineering and graduated in 1988. Gary has been involved in developing and conducting oil analysis training courses since 1992 and views this as an essential service to ALS Tribology's clients.

Kane Ashworth has worked in the oil analysis industry for the past 19 years in a variety of Australian locations. His expertise is derived from an extensive history with ALS Tribology, serving in roles from customer service representative to laboratory analysis technician, where he gained NATA certification for more than 20 test methods. Kane has had 13 years of diagnostic experience in a wide range of industrial and mobile applications. Kane oversees two ALS Tribology laboratories in his current role as regional manager.





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

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

AUD\$330 (including GST) Registration Fee (per workshop)

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

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"/>	Friday, March 18	Melbourne, Australia	Oil Analysis
<input type="checkbox"/>	Tuesday, March 29	Auckland, New Zealand	Oil Analysis
<input type="checkbox"/>	Thursday, March 31	Wellington, New Zealand	Oil Analysis
<input type="checkbox"/>	Thursday, May 19	Perth, Australia	Oil Analysis
<input type="checkbox"/>	Friday, May 20	Brisbane, Australia	Oil Analysis
<input type="checkbox"/>	Wednesday, June 1	Tasmania, Australia	Oil Analysis
<input type="checkbox"/>	Friday, June 3	Melbourne, Australia	Oil Analysis
<input type="checkbox"/>	Tuesday, June 7	Sydney, Australia	Oil Analysis
<input type="checkbox"/>	Thursday, June 23	Brisbane, Australia	Oil Analysis
<input type="checkbox"/>	Thursday, June 23	Perth, Australia	Oil Analysis
<input type="checkbox"/>	Tuesday, July 12	Adelaide, Australia	Oil Analysis
<input type="checkbox"/>	Thursday, August 18	Perth, Australia	Oil Analysis
<input type="checkbox"/>	Friday, August 19	Brisbane, Australia	Oil Analysis
<input type="checkbox"/>	Tuesday, September 6	Sydney, Australia	Oil Analysis
<input type="checkbox"/>	Friday, September 23	Melbourne, Australia	Oil Analysis
<input type="checkbox"/>	Wednesday, October 19	Brisbane, Australia	Oil Analysis
<input type="checkbox"/>	Thursday, October 20	Perth, Australia	Oil Analysis
<input type="checkbox"/>	Tuesday, December 6	Sydney, Australia	Oil Analysis

Payment Information (AUD\$330 including GST per course checked above)

<input type="checkbox"/>	Cheque Enclosed (<i>please make cheques payable to Australian Laboratory Services Pty. Ltd.</i>)		Total Amount
<input type="checkbox"/>	Credit Card (MasterCard or Visa Only)	<input type="checkbox"/> Visa	<input type="checkbox"/> MasterCard
	Card Number	Expiry Date	
	Name on Card		
	Signature		
<input type="checkbox"/>	Purchase Order	PO Number	



COURSE REGISTRATION DETAILS

Course Charges:

- Fee is AUD \$330 (including GST)
- Fee includes lunch, refreshments, local laboratory tour, training manual, stationary, etc.

Payment Options:

- Pay by cheque, purchase order, or credit card.
- Make cheques payable to: Australian Laboratory Services Pty. Ltd.

Cancellations:

- All cancellation requests must be made in writing.
- Registration fees for courses cancelled within seven days of the course commencement are nonrefundable.

To Register:

For courses held in SA, ACT, TAS, NSW and VIC, please contact:			
<u>ADDRESS:</u>	<u>FAX:</u>	<u>PHONE:</u>	<u>EMAIL FORM:</u>
ALS Laboratory Group Pty. Ltd. 277 Woodpark Road Smithfield, NSW 2164	(02) 8784 8600	(02) 8784 8601	orders.sydney@alstribology.com
For courses held in QLD, please contact:			
<u>ADDRESS:</u>	<u>FAX:</u>	<u>PHONE:</u>	<u>EMAIL FORM:</u>
ALS Laboratory Group Pty. Ltd. 41 Yarraman Place Virginia, QLD 4014	(07) 3326 6321	(02) 3326 6300	orders.brisbane@alstribology.com
For courses held in WA and NT, please contact:			
<u>ADDRESS:</u>	<u>FAX:</u>	<u>PHONE:</u>	<u>EMAIL FORM:</u>
ALS Laboratory Group Pty. Ltd. Unit 1, 30 Oxleigh Drive Malaga, WA 6090	(08) 9249 8631	(08) 9347 3244	orders.perth@alstribology.com
For courses held in NZ, please contact:			
<u>ADDRESS:</u>	<u>FAX:</u>	<u>PHONE:</u>	<u>EMAIL FORM:</u>
ALS Laboratory Group Pty. Ltd. 74 Seaview Road Lower Hutt, Wellington	(64) 4 586 6262	(64) 4 586 6202	orders.wellington@alstribology.com

All courses are held from 8:30 am to 4:30 p.m. Course venues will be advised upon confirmation of booking.