



Tribology

2013 Australasian 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



2013 Training Schedule

Date	Day	Location	Training Topic(s)
February 15	Friday	Perth, Australia	Oil
February 25	Monday	Brisbane, Australia	Oil
March 18	Monday	Tasmania, Australia	Oil
March 20	Wednesday	Melbourne, Australia	Oil
March 22	Friday	Sydney, Australia	Oil
April 16	Tuesday	Auckland, New Zealand	Oil
April 18	Thursday	Wellington, New Zealand	Oil
May 8	Wednesday	Mt. Isa, Australia	Oil
May 24	Friday	Melbourne, Australia	Oil
June 13	Thursday	Perth, Australia	Oil
June 14	Friday	Sydney, Australia	Oil
July 15	Tuesday	Adelaide, Australia	Oil
July 19	Friday	Mackay, Australia	Oil
August 16	Friday	Perth, Australia	Oil
August 28	Wednesday	Brisbane, Australia	Oil
September 6	Friday	Sydney, Australia	Oil
September 13	Friday	Melbourne, Australia	Oil
October 11	Friday	Mt. Isa, Australia	Oil
October 17	Thursday	Perth, Australia	Oil
December 6	Friday	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!** ~

NZD\$310.00 (plus 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, February 15	Perth, Australia	Oil Analysis
<input type="checkbox"/>	Monday, February 25	Brisbane, Australia	Oil Analysis
<input type="checkbox"/>	Monday, March 18	Tasmania, Australia	Oil Analysis
<input type="checkbox"/>	Wednesday, March 20	Melbourne, Australia	Oil Analysis
<input type="checkbox"/>	Friday, March 22	Sydney, Australia	Oil Analysis
<input checked="" type="checkbox"/>	Tuesday, April 16	Auckland, New Zealand	Oil Analysis
<input checked="" type="checkbox"/>	Thursday, April 18	Wellington, New Zealand	Oil Analysis
<input type="checkbox"/>	Wednesday, May 8	Mt. Isa, Australia	Oil Analysis
<input type="checkbox"/>	Friday, May 24	Melbourne, Australia	Oil Analysis
<input type="checkbox"/>	Thursday, June 13	Perth, Australia	Oil Analysis
<input type="checkbox"/>	Friday, June 14	Sydney, Australia	Oil Analysis
<input type="checkbox"/>	Tuesday, July 15	Adelaide, Australia	Oil Analysis
<input type="checkbox"/>	Friday, July 19	Mackay, Australia	Oil Analysis
<input type="checkbox"/>	Friday, August 16	Perth, Australia	Oil Analysis
<input type="checkbox"/>	Wednesday, August 28	Brisbane, Australia	Oil Analysis
<input type="checkbox"/>	Friday, September 6	Sydney, Australia	Oil Analysis
<input type="checkbox"/>	Friday, September 13	Melbourne, Australia	Oil Analysis
<input type="checkbox"/>	Friday, October 11	Mt. Isa, Australia	Oil Analysis
<input type="checkbox"/>	Thursday, October 17	Perth, Australia	Oil Analysis
<input type="checkbox"/>	Friday, December 6	Sydney, Australia	Oil Analysis

Payment Information (NZD\$310.00 plus GST per course above)

<input type="checkbox"/>	Cheque Enclosed (<i>please make cheques payable to (ALS Tribology)</i>)	Total Amount	
<input type="checkbox"/>	Purchase Order	PO Number	



COURSE REGISTRATION DETAILS

Course Charges:

- Fee is NZD \$310.00 (plus GST)
- Fee includes lunch, refreshments, local laboratory tour, training manual, stationary, etc.

Payment Options:

- Pay by cheque, or purchase order.
- Make cheques payable to: ALS Tribology, Ltd.

Cancellations:

- All cancellation requests must be made in writing.
- Registration fees for courses cancelled within seven days of the course commencement are nonrefundable.
- ALS Tribology reserves the right to cancel or postpone any training course in the event of not having enough nominations for a particular session.

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. 2/171-175 Newton Rd Wetherill Park, NSW 2161	(02) 9725 5071	(02) 8786 3150	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 Tribology 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.