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.

<table>
<thead>
<tr>
<th>Duration</th>
<th>1 Day</th>
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<tr>
<td>Cost</td>
<td>NZ $330 + GST</td>
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<tr>
<td>Included</td>
<td>Course materials and complimentary lab tour</td>
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Who Should Attend
These workshops are specifically designed for all maintenance professionals.

- Plant technicians
- Maintenance engineers
- Lubrication engineers
- Tradespeople & fitters
- Condition monitoring personnel
- All who seek to improve reliability programs

Meet Our Experts

Zahir Shamsi
Zahir Shamsi has a degree in Mechanical Engineering and over 15 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 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.

Robert Dawson
Robert holds the degrees of Bachelor of Engineering (Chemical & Process Engineering) and Master of Business Administration, is a member of the Institute of Engineers Australia and is a Certified Level II Machinery Lubrication Analyst (ISO 18436-4, II). He has been employed with ALS Tribology since 2010 and has held a number of positions including that of a Laboratory Technician, Diagnostician and is currently a Business Development Manager. During his time as a Diagnostician Robert spent several years providing diagnostic support to two laboratories in New South Wales and a third in New Zealand before taking on a leadership role in the Western Australian diagnostics team. In his current role Robert is responsible for providing training and other high-end customer support for ALS Tribology’s clients in Western Australia. His courses are well regarded and appreciated by all customers.

Ivan Lo
Ivan Lo has been with ALS Tribology since 2011 holding various positions, such as Laboratory Technician, Wear Debris Analyst, Technical Diagnostician and is currently a Business Development Manager. He holds a Bachelor of Science, Diploma in Engineering and is a Certified Level II Machinery Lubrication Analyst (ISO 18436-4, II). Ivan is also a participating member of ASTM International technical committees. In his current role, Ivan provides diagnostic and training support to clients in mining, construction, and power generation industries.

Kane Ashworth
Kane has worked in the oil analysis industry since 1992 at a variety of Australasian locations. His expertise is derived from an extensive history with ALS, serving in roles from customer service, laboratory analyst, and technical diagnostics to managing routine and specialty testing laboratories. Kane gained ISO17025 certification for more than 20 test methods and has over 15 years of diagnostic experience in a wide range of industrial and mobile applications. Kane currently hold the position of Regional Manager for Tribology New Zealand.

Program Objectives
Effective interpretation of analysis results
Types and function of various additives
Tests performed and their significance

Oil Analysis & Condition Monitoring
Sample Agenda

- About ALS
- Training objectives & 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
All courses are held from 8:30 am to 4:30 p.m. Course venues will be advised upon confirmation of booking. Course Fee includes lunch, refreshments, local laboratory tour, training manual, stationery, etc.

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.

Enclosed footwear is required if attendees want to participate in the lab tour.

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**Workshop/Class Selection**

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**ALS Training Locations**

**For courses held in SA, ACT, TAS, NSW and VIC**

2/171-175 Newton Rd. Wetherill Park, NSW 2164
F (02) 9725 5071
P (02) 8786 3150
E orders.sydney@alstribology.com

**For courses held in QLD**

26 Shand Street Stafford, Queensland 4053
F (07) 3326 6321
P (07) 3326 6300
E orders.brisbane@alstribology.com

**For courses held in WA and NT**

109 Bannister Road Canning Vale, WA 6155
F (08) 9232 0499
P (08) 9232 0400
E orders.perth@alstribology.com

**For courses held in NZ**

74 Seaview Road Lower Hutt, Wellington
F (64) 4 586 6262
P (64) 4 586 6202
E 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. Course Fee includes lunch, refreshments, local laboratory tour, training manual, stationery, etc. 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.

ALS eSource is a regular e-newsletter featuring technical bulletins, articles and announcements relevant to oil, fuel, coolant and grease analysis.