

## LUBRICATION ENGINEERING BASIC LE-B 002

### DO YOU:

- know what proportion of your costs are used to overcome friction and wear?
- have a procurement policy for tribological materials and components?
- have a policy on component failures?
- have maintenance and lubrication strategies for plant and products?
- monitor the types and consumption of lubricants in your plant?

### Johannesburg

#### COURSE OBJECTIVES:

The course is designed to transfer a basic understanding of tribology from a lubrication engineering perspective. Some fourteen topics take participants through the basics of rubbing contact and friction in automotive and industrial applications.

#### WHO SHOULD ATTEND?

The course is aimed at maintenance personnel but will be of benefit to anyone, including engineers, concerned with the operation, maintenance, condition monitoring or management of industrial plant, machinery, transport, and other lubricant related disciplines. Marketing personnel can also gain valuable knowledge from the course.

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*"Promoting knowledge and skills transfer in friction and wear to achieve a lower Total Cost of Ownership (TCO)."*

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#### REQUIRED EXPERIENCE:

Delegates should have a basic understanding of lubricants and their application.

**DATE:** 8 – 10 October 2024.

**LOCATION:** Cedar Woods of Sandton Conference Centre, 120 Western Service Road, Woodmead, Sandton, Johannesburg  
What3word <https://w3w.co/plotted.vocally.imparts>



**Contact Us:**

Jo-anne or Berice by telephone or e-mail below for more information: SAIT, POSTNET Suite 598 Private Bag X10030 Randburg South Africa 2125

Tel:  
+27 11 804-3710.

**Email:**  
training@sait.org.za or  
admin@sait.org.za

**Website:**  
<http://www.sait.org.za>

**ADMIN:**

For the purposes of travel, please note that the course ends at 16:30 on the final day, Thursday.

Please note that group photographs are taken and published.

The SAIT reserves the right to cancel or postpone the course if undersubscribed, or for any other reason, or to change the venue, and is not liable for any costs incurred by delegates or their sponsoring companies.



**Course Content:** What is a Lubricant, Base Oils, Additives, Specifications, Engine Lubrication, Gears & Bearings, Transmissions, Axles & Differentials, Off-highway & Farm Tractors, Industrial Gears, Hydraulics, Grease, Coolants & Fuels.

**Case Studies:** Delegates are invited to bring their case studies, their problems, and their questions to the course for discussion.

**Examination:** An examination will complete the course, with a certificate for successful candidates. Please note that this will be completed online, 1 week after the course completion. It will be a requirement to be logged into MS TEAMS, with the camera on and yourself visible during the exam.

**Knowledge transfer:** The lecturers of the course have a combined knowledge of over 170 years, to impart their learnt knowledge and experience in the tribology field to eager minds in a short space of time.



Be prepared for a lot of information and a fast-paced course that will give you the knowledge to ask the correct questions and information to advance tribology.

**Costs:**

- SAIT Members: R13 125.00
- Non-Members: R14 904.00
- Full-Time Students: R4 002.00

**NB:** please attach proof of full-time registration:

**Payment to the SAIT is due on receipt of invoice.**

The fee includes course notes, lunch, and teas, but not accommodation. A list of the closest hotels is available on request.

Registration closes three weeks before the starting date of each course; please book early to ensure your position. Payment to the SAIT is due on receipt of invoice; registration will be confirmed when Proof of Payment or a Purchase Order Number is received.

Delegates must adhere to the cancellation policy outlined by the SAIT. Refunds or credits will be considered and granted at the consideration of the SAIT, which may include administrative fees or deductions. If cancellation is made within 10 days of course commencement R3000 will be invoiced to cover the cost to the venue.

The Course manual is available before the course to fully paid-up delegates.

## Southern African Institute of Tribology

### Programme LE-B 002

#### Day 1

- Registration, Coffee & Tea
- Welcome & Introductions
- What is a Lubricant (2)
- Base Oils (3)
- Additives (4)
- Specifications (5)
- Revision & Preparation for Next Day (Self)



#### Day 2

- Revision
- Engines (6)
- Gears & Bearings (Revision 7)
- Transmissions (8)
- Axles & Differentials (9)
- Off-Highway & Farm Tractors (10)
- Revision & Preparation for Next Day (Self)

#### Day 3

- Revision
- Industrial Gears (11)
- Hydraulics (12)
- Grease (13)
- Coolant (14)
- Fuels (15)



## CedarWoods of Sandton Hotel • Conference • Restaurant

### Where to find us

120 Western Service Road  
Woodmead, Sandton  
South Africa

Tel: +27 11 804 3777

Fax: +27 11 802 1004

[www.cedarwoods.co.za](http://www.cedarwoods.co.za)

[info@cedarwoods.co.za](mailto:info@cedarwoods.co.za)

P O Box 76299, Wendywood, 2144, South Africa

GPS Location: S26° 4' 4.3" E28° 5' 22.5"

 [twitter.com/CedarwoodsOS](https://twitter.com/CedarwoodsOS)

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## DISCLAIMER: TERMS AND CONDITIONS APPLY

The following terms and conditions govern your participation in the "Lubrication Engineering" training course offered by the Southern African Institute of Tribology (SAIT). By enrolling in this course, you agree to comply with the following terms:

- **Registration:** Completion of the registration process, including payment of the course fees, is required to secure a place in the "Lubrication Engineering" training course.
- **Course Content:** SAIT reserves the right to modify the course content, schedule, or instructors without prior notice. The institute will make reasonable efforts to inform registered delegates of any changes.
- **Cancellation and Refunds:** Delegates must adhere to the cancellation policy outlined by the SAIT. Refunds or credits will be considered and granted at the consideration of the SAIT, which may include administrative fees or deductions. If cancellation is made within 10 days of course commencement R3000 will be invoiced to cover the cost to the venue.
- **Confidentiality:** All course materials, including but not limited to presentations, handouts, and resources provided during the training, are copyrighted and for the registered delegate's personal use only. Sharing, distributing, or reproducing these materials without explicit permission from SAIT is strictly prohibited.
- **Liability:** SAIT will not be held liable for any loss, damage, injury, or inconvenience caused directly or indirectly during the "Lubrication Engineering" training course. Delegates are responsible for their personal belongings and well-being during the course.
- **Certification:** Completion of the course does not guarantee certification. Achievement of certification is subject to fulfilling all course requirements and assessments as specified by SAIT. Certificates will only be released once full payment has been received.

By enrolling in the "Lubrication Engineering" training course, you acknowledge that you have read, understood, and agreed to abide by these terms and conditions.