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# SAIT Training Newsletter, November 2020

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## SAIT Training

***Follow the path from data to information and into knowledge.***

### **Applicable to ALL SAIT Training Courses:**

Registration closes a week before the starting date of each course; please book early to ensure your position.

Please note that photographs will be taken during the course and published in the SAIT Newsletter and on the SAIT Website.

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### ***Report-Back:***

### ***“LUBRICATION ENGINEERING 127e”***

**5-16 October 2020**

This recent “Lubrication Engineering” course was again held on the Zoom platform, as a mornings-only course, spread over nine days.

Sixteen candidates participated; no distinctions were achieved.

Candidates logged in from such towns as Kathu, Bredasdorp, Rustenburg, Cape Town and Johannesburg.

All candidates enjoyed the Homework Quiz, which added interest and friendly competition to the course.

Presenters were Dave Gamble and Patrick Swan; we thank them for giving their time.

John Fitton again hosted and organised the running of the course on Zoom, and we are very appreciative of his expertise in this respect.

### **Photos of The LE 127e Candidates, Presenters and Host**

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**Gena Griessel**



**Donald Matlholanyane**



**Eugene Mehlembe**



**Ikeleng Obusitse**



**Jan Daniel Cruywagen**



**Johannes Mosima**



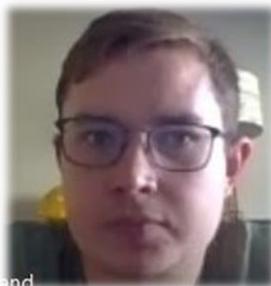
**Kagiso Eric Phago**



**Lorraine Molefe**



**Olivia Adams**



**Mauritz Niemand**



**Kyle Eastwood**



**Daniel Monyebodi**



**Sibongile Makhubo**



**Tommy Kotze**



**Tumelo Lethoko**



**Tendamudzu Ramabulana**



Presenter, Dave Gamble  
SAIT Committee Member



Presenter, Patrick Swan  
SAIT President



Host, John Fitton  
Technical Director, CPS Chemicals

## Something New

The SAIT intends to present, online, one-day Introduction to Lubrication Engineering and Introduction to Wear and Materials Courses.

*Please email us at [admin@sait.org.za](mailto:admin@sait.org.za) if you would be interested in participating, or registering trainees to participate in these courses.*

### **"INTRODUCTION TO LUBRICATION ENGINEERING"**

#### **On Zoom**

A one-day introductory e-learning course, **ILE 1e**, on the principles & technology of lubrication engineering held on Zoom platform.

**Registered with ECSA, number SAIMM01415 and accredited with 0.8 CPD credits.**

Friction, wear, poor lubrication and failures cost the industry time and money. To overcome these problems, and to save on downtime and maintenance, it is essential for all personnel from top management right through to the lubricator on the factory floor, to be aware of how machinery and equipment can be maintained to ensure maximum efficient functioning. This introductory level course is based on selected modules of the current five day "Lubrication Engineering" course, which has been successfully presented over many years to personnel involved with maintenance.

**Course Objectives:** To give participants an introduction to the practical understanding of lubrication engineering.

**Who Should Attend?** The course gives basic knowledge which would suit plant operators, buyers, lubricators, artisans and apprentices, but with sufficient detail to warrant CPD credits with ECSA. The course will also benefit anyone involved with the operation and maintenance of industrial plant and machinery, or mining, trucking, transport and other lubricant related disciplines.

**Proposed Course Content:** Lubrication Terminology, Source, Chemistry, Physical Characteristics, Additives, Fundamentals of Lubrication, Greases, Plain Bearings, Rolling Bearings, Gears, Hydraulics, Compressors, IC Engines, Oil Analysis & Condition Monitoring, Storage & Handling, Filtration and Synthetics.

*A certificate of attendance will be awarded to delegates who complete the course.*

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**Cost:**      **SAIT Members: R3,220.00**      **Non-Members: R3 565.00**      **Students: R805.00** (*Written proof of full-time student registration is required.*)

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**AND**

## **"INTRODUCTION TO WEAR & MATERIALS"**

### **On Zoom**

**A one-day introductory course, IWM 1e, on the tribological principles of wear and materials.**

*Registered with ECSA, number SAIMM01416, and accredited with 0.8 CPD credits.*

This one-day SAIT course, **"Introduction to Wear & Materials"**, presented at an introductory level, is based on selected modules from the original three day **"Understanding and Managing Wear"** course, and is concerned with the operation, maintenance and design of plant and equipment, with special relevance to the selection and specification of wear resistant materials, [in the field of tribology](#).

**Course Objectives:** To give participants an introduction to the different wear mechanisms and a practical understanding of the range and right selection of materials available to combat wear. A short introduction into the theory is complimented by practical examples of applications.

**Who Should Attend?** The course is aimed at supervisors and foremen, who must be able to understand and recognise wear and related problems, but will also benefit anyone requiring an introductory understanding of the common wear processes and the materials currently used to combat wear. The course is accredited with ECSA, for one CPD point.

**Proposed Course Content:** Wear mechanisms such as sliding wear, abrasion, erosion, fatigue-related wear, corrosive-wear and cavitation; Wear resistant materials including ceramics, rubbers, hardmetals (tungsten carbide), polymers, ferrous and non-ferrous alloys; Case studies on wear failures. A certificate of attendance will be awarded to delegates who complete the course.

*A certificate of attendance will be awarded to delegates who complete the course.*

**Cost:**      **SAIT Members: R3,220.00**      **Non-Members: R3 565.00**      **Students: R805.00** (*Written proof of full-time student registration is required.*)

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***Our next full, Live and In-Person***

## ***Lubrication Engineering Course***

***Is scheduled to take place from 22-26 February 2021 as LE 128***

***Venue is CedarWoods of Sandton Conference Centre, 120 Western Service Road, Woodmead, Sandton, Johannesburg.***

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All of our Lubrication Engineering courses, online and 'live', are registered with ECSA and are awarded 4 CPD Credits.

Information is applicable to all Lubrication Engineering courses held by The SAIT:

**Course Objectives:** The course is designed to transfer a thorough understanding of tribology from a lubrication engineering perspective. Some twenty topics take participants through from basic chemistry; the theory of rubbing contact and friction in industrial applications, to the application of management principles, safety and the environment.

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

**Experience:** Delegates are advised that it is essential that they should have a good understanding of lubricants and their application, specifically what viscosity is. Delegates must have at least twelve months experience in the lubricant and maintenance professions.

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

**Course Content:** Lubrication Terminology, Fundamentals of lubrication, Production and characteristics of lubricant base oils, Properties of base oils, Additives, Specifications, Grease, Lubrication Devices, Synthetic Lubricants, Internal Combustion Engine Lubrication, Auto Drive Line Lubricants, Plain Bearings, Rolling Bearings, Gears, Hydraulics, Compressors, Transformer Oils, Metal working, Filtration, Condition monitoring & Used Oil Analysis, Seals, Coolants, assessment of failed components, Lubrication Surveys, Storage and Handling of Lubricants and Environment.

**Examination:** An on-line examination will complete the course, with a certificate for successful candidates.

**Costs:**     **SAIT Members: R17,135.00**                     **Non-Members: R19,090.00**                     **Students: R5, 267.00**  
(proof of registration as a full-time student is required)

Download the Registration Form from [our Website](#)

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## PROVISIONAL TRAINING DATES 2021 (subject to change):

### **Introduction to Lubrication Engineering**

*0.08 ECSA CPD Credits through SAIMM*

### **Introduction to Wear and Materials**

*0.08 ECSA CPD Credits through SAIMM*

### **“LUBRICATION ENGINEERING”**

**Four ECSA CPD credits through SAIMM**

**Please note that all courses, whether live or on Zoom, will depend on numbers and government regulations.**

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Course	Dates	Description	Venue
ILE1e	20 January 21	e-learning 1-day introductory course	Zoom
IWM1e	21 January 21	e-learning 1-day introductory course	Zoom
LE 128	22-26 February 21	Live 5-day course	Johannesburg
LE 129e	10-13 & 17-21 May 21	e-learning, 9 mornings	Zoom
LE 130	7-11 June 21	Live 5-day course	Durban
LE 131	26-30 July 21	Live 5-day course	Johannesburg
LE 132e	23-26 & 30 Aug-3 Sept 21	e-learning, 9 mornings	Zoom
LE 133e	18-21 & 25-29 October 21	e-learning, 9 mornings	Zoom
LE 134	21-25 February 22	Live 5-day course	Johannesburg

***In-house courses will be considered on request.***

**As details are finalized, the SAIT Website will be updated at [SAIT Training](#). Or contact us at either [admin@sait.org.za](mailto:admin@sait.org.za) or [secretary@sait.org.za](mailto:secretary@sait.org.za).**



## The STLE's CLS, OMA and CMFS Examinations Hosted by The SAIT



**NB: These Examinations have been postponed to **12 February 2021**. They are open to SAIT Members in good standing.**

The venue will be Science Park, Kelvin.

- **Certified Lubrication Specialist (CLS):** Although not compulsory, it is highly recommended that you first attend the SAIT five-day 'Lubrication Engineering' course. A distinction of 75% is a good indication of success in the CLS exam, where the standard is high and the pass mark is 70%. The recommended books for the CLS exam are the STLE Alberta Section 'Basic Handbook of Lubrication' Third Edition, and/or the AIST 'The Lubrication Engineers Manual' Fourth Edition.
- **Oil Monitoring Analyst (OMA I and OMA II)**
- **Certified Metalworking Fluids Specialist (CMFS)**

**A significant amount of study is required for these exams, so it is advisable that candidates make an early start.** Recommended reading for all modules is on the [STLE website](#) under "[Professional Development](#)".

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**Please contact us at [admin@sait.org.za](mailto:admin@sait.org.za) if you are interested in participating in these exams. Please note that before writing, you will need time for a large amount of preparatory self-study and reading.**

For further information, costs and to register, please contact Gill, Isabel or Berice at the SAIT offices:

Tel. (+27) (0)11 804 3710 or email [secretary@sait.org.za](mailto:secretary@sait.org.za) or [admin@sait.org.za](mailto:admin@sait.org.za).

## SAIT CLS Study Overview

**Please contact us at [admin@sait.org.za](mailto:admin@sait.org.za) if you are interested in participating in a SAIT CLS Study Overview on 10 & 11 February 2021. Please note that before participating, you will need to spend time on a large amount of preparatory self-study and reading. This Overview will only go ahead if enough people wish to attend this overview – PLEASE CONTACT US.**

- Should enough applicants wish to attend, The SAIT will present a two-day SAIT CLS Study Overview immediately before the CLS exam to help prepare for it. The overview will be facilitated by a current CLS holder.
- [Please indicate your wish to participate in this CLS Study Overview by 30 November 2020.](#)
- Preparation notes and exercises will be forwarded to delegates after confirmation of registration, on condition payment has been received.

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## We Want to Hear from YOU!



1. **Please email us at [admin@sait.org.za](mailto:admin@sait.org.za) if you would be interested in participating, or registering trainees to participate in any of our Training Courses.**
2. **Please contact us at [admin@sait.org.za](mailto:admin@sait.org.za) if you are interested in participating in a SAIT CLS Study Overview on 10 & 11 February 2021. Please note that before participating, you will need to spend time on a large amount of preparatory self-study and reading.**

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## Social Media

Please Like the South African Institute of Tribology – SAIT – on [Facebook](#) and regularly check our [Website](#) for updates.



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