



The South African Institute of Mechanical Engineering

Practical Lubrication and Lubricants Workshop

CPD Validation Number is available at request

This workshop will earn delegates 1 credit in Category 1

This workshop is suitable for SAIMEchE Groups 0, 1, 2 & 3a

SAIMEchE Group Classification

0 = Non-technical,
e.g. HR, Finance

1 = Candidate (including GCC) with <5 years experience

2 = Professional (including GCC) with <15 years experience

3a = Professional and Appointment with >15 years experience and with specialist interest

3b = Senior Management with >15 years experience

Overview

In an article called *Why Should Managers Care About Oil?*, it is said that, for most machines, over 80% of the wear and failures could be avoided if managers and supervisors provided proper training, tools, and support to their maintenance staff. This could also significantly increase production.

To be able to do that, people responsible for production need the basic knowledge of lubrication in order to make decisions that could be crucial for the company.

Contents

- Understanding essential characteristics of lubricants and how they affect the lubricants' performance.
- Synthetics and when to use them.
- Understanding engine oils, gear and transmission oils, ATFs, greases, compressor oils, hydraulic and fire-resistant fluids, turbine oils, machine tool oils and cutting fluids.
- Oil cleanliness, storage and handling, shelf life of lubricants, etc.

Who Should Attend

- **Decision makers** and plant personnel who could be involved in selecting lubricant suppliers or lubricants, or will discuss lubricants with the suppliers, or who could be faced with lubricant-related problems.
- **Supervisors and their managers** responsible for maintenance of vehicles and industrial machinery (e.g. compressors, grease and oil lubricated bearings, gearboxes, hydraulic systems or machine tools).
- **Selected plant personnel** involved in lubrication and maintenance.

Note

This workshop is followed the next day by one-day workshop '**Lubricants and Oil Monitoring**'. You will benefit by attending the second day as well.

Duration: 1 day

08h30 – 16h30 (Registration at 08h00)

Bookings and contact details:

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Workshop developer

Petr Vavruch, Pr Eng, Ing.(Prague), spent most of his working life with Mobil Oil and Engen. He is a member of SAIMEchE and ICMEESA.

He is now retired, has written a textbook for FET colleges and edited a number of 'Technology' textbooks for high schools. He lectures for SAIT.

At Mobil, Petr was a Field Engineer (Fuels & Lubricants) and a Planning Engineer for automotive engine oils and other lubricants.

During the last 10 years at Engen, he was in charge of specifications of base oils and specifications and formulations of industrial lubricating oils - also helping to solve production and field problems with these lubricants.

Petr participated in or was in charge of number of projects, e.g. air compressor oils, synthetic lubricants, the universal diesel engine oil, new engine oils, new hydraulic fluids, industrial gear oils, turbine oils, metalworking fluids, open gear oils, rolling oils, refrigeration oils, and marine engine oils.