



PROCESS AND CHEMICAL ENGINEERING

Base Oil Production and Lubricant Refining

5 day course

Classroom, online or in-house

Course overview

Base oil quality determines what a finished lubricant can do, and the production route determines the quality. This course covers those routes. Delegates work through vacuum distillation and the feedstock it produces, then solvent processing including deasphalting, extraction and dewaxing, and the hydroprocessing routes that have largely displaced them for higher grades. Base oil groups and their specifications are covered, along with the property tests that define them. Blending and additive interaction receive attention, since a base oil is only half the product. The course closes on the environmental obligations attaching to lubricant production and on used oil handling.

What you will learn

- Describe the base oil production routes and what each yields
- Operate vacuum distillation for lubricant feedstock
- Explain solvent deasphalting, extraction and dewaxing
- Compare hydroprocessing routes and the grades they produce
- Classify base oil groups and their specifications
- Interpret the property tests that define base oil quality
- Address environmental obligations and used oil handling

Who should attend

- Refinery and lubricants process engineers
- Blending plant operators and supervisors
- Laboratory staff testing base oils
- Technical and product development staff
- Environmental officers in lubricant production

Course outline

- 01 Base oil quality and what determines it
- 02 Vacuum distillation and feedstock
- 03 Solvent deasphalting and extraction
- 04 Dewaxing routes
- 05 Hydroprocessing and higher grades
- 06 Base oil groups and specifications
- 07 Property testing and interpretation
- 08 Blending, additives and environmental obligations

Upcoming dates

Dates	Venue	Format	Fee per delegate
28 September to 2 October 2026	Mbabane, Eswatini	Classroom	R19,950
19 to 23 October 2026	Accra, Ghana	Classroom	USD 1,325
21 to 25 December 2026	Gaborone, Botswana	Classroom	R19,950
28 December 2026 to 1 January 2027	Maputo, Mozambique	Classroom	USD 1,325



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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