

**MANUFACTURING AND PRODUCTION**

Lubricant Blending and Grease Manufacturing

3 day course

Classroom, online or in-house

Course overview

A blending plant buys base oil and additive and sells a specification, so its entire value sits in getting the ratio right and not contaminating the batch between products. This course covers running one. Delegates work through base oil groups and the properties each brings, including viscosity index and volatility. Additive chemistry is covered by function: detergents, dispersants, anti wear, viscosity modifiers and antioxidants, and the reason a finished oil cannot simply be improved by adding more. Blending operations follow, covering in line and batch blending, heating, agitation and homogeneity verification. Contamination control between grades is treated directly, since cross contamination is the most common cause of an off specification batch. Grease manufacture is covered, including soap thickener systems, the kettle process and consistency measurement. Testing follows across viscosity, flash point, pour point, total base number and dropping point. Filling, packaging and labelling are addressed. The course closes on specification approvals and on batch traceability.

What you will learn

- Select base oil groups for the properties a specification needs
- Explain additive functions and their limits
- Operate in line and batch blending and verify homogeneity
- Prevent cross contamination between grades
- Manufacture grease through thickener systems and control consistency
- Test viscosity, flash point, pour point, base number and dropping point
- Fill, label and maintain traceability against specification approvals

Who should attend

- Lubricant blending plant operators and supervisors
- Quality control staff in lubricant manufacture
- Formulation and technical services chemists
- Production managers at blending plants
- Technical sales staff supporting lubricant customers

Course outline

- 01 Buying oil, selling a specification
- 02 Base oil groups and properties
- 03 Additive functions and their limits
- 04 In line and batch blending
- 05 Homogeneity verification
- 06 Cross contamination between grades
- 07 Grease thickeners, kettle process and consistency
- 08 Testing, filling, approvals and traceability

Upcoming dates



Dates	Venue	Format	Fee per delegate
25 to 27 November 2026	Kigali, Rwanda	Classroom	USD 995
20 to 22 January 2027	Johannesburg, South Africa	Classroom	R14,950
17 to 19 February 2027	Windhoek, Namibia	Classroom	R14,950
22 to 24 February 2027	Online	Online	R6,500

Fees and how to register

This 3 day course is **R6,500** per delegate online, **R14,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 995** 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**.

AfriScience Group | +27 61 536 6531 | info@afriScience.co.za | Pretoria, Gauteng, South Africa