



MANUFACTURING AND PRODUCTION

Quality Control for Chemical and Consumer Products

3 day course

Classroom, online or in-house

Course overview

A consumer product is judged by someone who will never see a certificate of analysis, which means quality control has to protect properties the customer notices as well as the ones the specification lists. This course covers both. Delegates work through specification setting, distinguishing the parameters that are genuinely critical from the ones inherited from a template. Sampling is addressed for batch products, including where in a vessel a representative sample comes from. Physical testing follows across viscosity, density, pH, particle size and colour, with the method detail that decides whether two laboratories agree. Microbiological testing is covered for water based products, including limits and challenge testing. Stability and shelf life testing are addressed. Control charts and the difference between a specification limit and a control limit are covered. Out of specification handling follows, including retest rules and batch disposition. Retained samples and traceability are addressed. The course closes on complaint investigation and on feeding quality data back into production.

What you will learn

- Set specifications around genuinely critical parameters
- Sample batch products representatively
- Run viscosity, density, pH, particle size and colour tests reproducibly
- Apply microbiological limits and challenge testing to water based products
- Design stability and shelf life studies
- Use control charts and distinguish control from specification limits
- Handle out of specification results, retain samples and investigate complaints

Who should attend

- Quality control analysts in chemical and consumer manufacturing
- Laboratory supervisors in fast moving consumer goods
- Production supervisors accountable for batch release
- Product developers setting specifications
- Quality managers building a testing programme

Course outline

- 01 Judged by someone who never sees a certificate
- 02 Specification setting and critical parameters
- 03 Representative sampling from a vessel
- 04 Viscosity, density, pH and particle size
- 05 Colour measurement and method detail
- 06 Microbiological limits and challenge testing
- 07 Stability studies and control charts
- 08 Out of specification handling, retains and complaints

Upcoming dates



Dates	Venue	Format	Fee per delegate
11 to 13 November 2026	Nairobi, Kenya	Classroom	USD 995
20 to 22 January 2027	Durban, South Africa	Classroom	R14,950
24 to 26 February 2027	Lusaka, Zambia	Classroom	USD 995
8 to 10 March 2027	Gaborone, Botswana	Classroom	R14,950

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**.

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