



MANUFACTURING AND PRODUCTION

Aerosol Products Manufacturing and Safety

3 day course

Classroom, online or in-house

Course overview

An aerosol is a pressurised container filled with flammable propellant on a line where a leak becomes an explosive atmosphere, which makes the safety case inseparable from the production process. This course treats them together. Delegates work through aerosol construction: can, valve, actuator and dip tube, and the way each affects spray pattern. Propellant selection is covered across liquefied and compressed gases with the pressure and flammability each brings. Product concentrate formulation follows for the main categories. Filling is addressed in operational detail: pressure filling and cold filling, crimping and the crimp dimensions that determine whether a valve seals. Leak testing in the water bath is covered. Pressure and temperature limits are addressed, along with the can specification that supports them. Fire and explosion control on the filling line is covered, including ventilation, ignition control and separation distances. Storage and transport classification follow. The course closes on quality checks, on can corrosion and on complaint investigation.

What you will learn

- Explain how can, valve, actuator and dip tube shape the spray
- Select propellants and account for pressure and flammability
- Formulate concentrates for common aerosol categories
- Operate pressure and cold filling and control crimp dimensions
- Leak test reliably and respect pressure and temperature limits
- Control fire and explosion risk on a filling line
- Classify aerosols for storage and transport and investigate complaints

Who should attend

- Aerosol filling line operators and supervisors
- Production and process engineers in aerosol plants
- Quality control staff on pressurised products
- Safety officers responsible for flammable filling areas
- Product developers launching aerosol products

Course outline

- 01 A leak becomes an explosive atmosphere
- 02 Can, valve, actuator and dip tube
- 03 Propellant selection and flammability
- 04 Concentrate formulation
- 05 Pressure filling and cold filling
- 06 Crimping and valve sealing
- 07 Leak testing and pressure limits
- 08 Ignition control, separation, classification and complaints

Upcoming dates



Dates	Venue	Format	Fee per delegate
19 to 21 October 2026	Online	Online	R6,500
2 to 4 November 2026	Cape Town, South Africa	Classroom	R14,950
13 to 15 January 2027	Lagos, Nigeria	Classroom	USD 995
15 to 17 February 2027	Durban, South Africa	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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