

**MANUFACTURING AND PRODUCTION**

Textile Effluent Treatment and Cleaner Production

3 day course

Classroom, online or in-house

Course overview

Textile effluent is coloured, salty, alkaline and variable through the day, which defeats treatment plants designed for an average that never actually arrives. This course works from the real load. Delegates work through the effluent each wet process contributes, since desizing, scouring, bleaching, dyeing and finishing produce very different streams. Segregation at source is covered as the intervention that changes everything downstream. Equalisation and neutralisation follow. Colour removal is addressed specifically, including coagulation, adsorption and oxidation, and why biological treatment alone rarely removes reactive dye colour. Biological treatment for the organic load is covered. Salinity and total dissolved solids are addressed honestly, including the limits of conventional treatment. Sludge handling follows. Cleaner production is treated as the cheaper route: recipe optimisation, liquor ratio reduction, water reuse and heat recovery. The course closes on discharge consent compliance and on the cost per cubic metre treated.

What you will learn

- Characterise the effluent each wet process contributes
- Segregate streams at source to simplify treatment
- Operate equalisation and neutralisation against a variable load
- Remove colour by coagulation, adsorption or oxidation
- Treat the organic load biologically
- Address salinity within the limits of conventional treatment
- Apply cleaner production measures and meet discharge consent at a known cost

Who should attend

- Effluent plant operators at textile mills
- Environmental officers in wet processing
- Process engineers in dyeing and finishing
- Compliance staff managing discharge consents
- Managers pursuing water and energy reduction

Course outline

- 01 Designed for an average that never arrives
- 02 Effluent by wet process
- 03 Segregation at source
- 04 Equalisation and neutralisation
- 05 Colour removal methods
- 06 Biological treatment of organic load
- 07 Salinity, dissolved solids and sludge
- 08 Cleaner production, consent compliance and cost per cubic metre

Upcoming dates



Dates	Venue	Format	Fee per delegate
2 to 4 December 2026	Online	Online	R6,500
7 to 9 December 2026	Lusaka, Zambia	Classroom	USD 995
21 to 23 December 2026	Addis Ababa, Ethiopia	Classroom	USD 995
1 to 3 March 2027	Windhoek, Namibia	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**.

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