



PROCESS AND CHEMICAL ENGINEERING

Process Plant Commissioning and Start Up

5 day course

Classroom, online or in-house

Course overview

Commissioning is where design assumptions meet a physical plant, and where the cost of every earlier shortcut is finally paid. This course covers running it. Delegates work through commissioning strategy and system breakdown, the sequence from mechanical completion through pre commissioning to first feed, and the punch listing and handover discipline that determines what an operating team inherits. Cleaning, flushing, drying and leak testing are covered in order, alongside the safety regime for a plant that is partly live and partly under construction. The course closes on first start up, performance testing against guarantee, and the defects that only appear once a unit has run for a week.

What you will learn

- Build a commissioning strategy and break a plant into systems
- Sequence mechanical completion, pre commissioning and commissioning
- Run punch listing and system handover so nothing is inherited unknowingly
- Plan cleaning, flushing, drying and leak testing in the right order
- Operate a safety regime for a partly live, partly constructed plant
- Execute a first start up and stabilise the unit
- Conduct performance testing against guarantee

Who should attend

- Commissioning engineers and managers
- Project and construction engineers
- Operations staff receiving a new plant
- Process and control engineers
- HSE professionals supporting commissioning

Course outline

- 01 Commissioning strategy and system breakdown
- 02 Mechanical completion and pre commissioning
- 03 Punch listing, handover and what the operator inherits
- 04 Cleaning, flushing and drying
- 05 Leak and pressure testing
- 06 Safety on a partly live plant
- 07 First feed, start up and stabilisation
- 08 Performance testing and latent defects

Upcoming dates

Dates	Venue	Format	Fee per delegate
21 to 25 September 2026	Cape Town, South Africa	Classroom	R19,950
19 to 23 October 2026	Johannesburg, South Africa	Classroom	R19,950
14 to 18 December 2026	Lusaka, Zambia	Classroom	USD 1,325
8 to 12 March 2027	Durban, South Africa	Classroom	R19,950



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**.

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