



ENGINEERING AND TECHNICAL TRAINING

Statistical Process Control

3 day course

Classroom, online or in-house

Course overview

Every process varies, and the central skill is telling the variation that is simply the process breathing from the variation that means something changed, because reacting to the first makes output worse. This course teaches that distinction. Delegates work through variation and the difference between common and special cause, data collection and the sampling that makes a chart meaningful, and control chart selection for variable and attribute data. Chart construction, limits and the rules that signal a genuine shift are covered. Process capability follows, including why a capable process and a controlled process are not the same thing. Reacting appropriately to a signal is addressed. The course closes on implementing charts on the shop floor and on charts that get filled in and never read.

What you will learn

- Distinguish common cause variation from special cause
- Collect data and sample so a chart means something
- Select the right control chart for variable and attribute data
- Construct charts, set limits and apply the signal rules
- Calculate process capability and interpret it correctly
- Explain why capability and control are different things
- Implement charts people actually use and act on

Who should attend

- Quality engineers, technicians and inspectors
- Production supervisors and operators
- Process and manufacturing engineers
- Laboratory staff monitoring measurement processes
- Improvement practitioners using data

Course outline

- 01 The process breathing against something changing
- 02 Common and special cause variation
- 03 Data collection and sampling
- 04 Control charts for variable data
- 05 Control charts for attribute data
- 06 Limits and signal rules
- 07 Process capability against control
- 08 Reacting to signals and shop floor implementation

Upcoming dates

Dates	Venue	Format	Fee per delegate
11 to 13 November 2026	Online	Online	R6,500
23 to 25 December 2026	Cape Town, South Africa	Classroom	R14,950
15 to 17 February 2027	Pretoria, 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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