



PROCESS AND CHEMICAL ENGINEERING

Process Safety Management Systems

5 day course

Classroom, online or in-house

Course overview

Process safety failures are rare, catastrophic and almost always preceded by warnings that a management system should have caught. This course covers building that system. Delegates work through the elements of process safety management and how they connect, hazard identification and risk assessment feeding into design and operation, and the management of change that prevents a small modification introducing a large hazard. Mechanical integrity, safe operating limits and operating procedures are covered as the day to day controls. Incident investigation and leading indicators follow. The course closes on process safety culture and on the difference between occupational and process safety performance.

What you will learn

- Describe the elements of a process safety management system and their links
- Feed hazard identification and risk assessment into design and operation
- Run management of change so modifications do not introduce hazards
- Maintain mechanical integrity of safety critical equipment
- Define and operate within safe operating limits
- Investigate process safety incidents and near misses
- Select leading indicators and distinguish process from occupational safety

Who should attend

- Process safety engineers and HSE managers
- Plant and operations managers
- Process and design engineers
- Maintenance and integrity engineers
- Regulators and auditors reviewing major hazard sites

Course outline

- 01 Why process safety fails differently
- 02 The elements and how they connect
- 03 Hazard identification and risk assessment
- 04 Management of change
- 05 Mechanical integrity of safety critical equipment
- 06 Safe operating limits and procedures
- 07 Incident investigation and near misses
- 08 Leading indicators and culture

Upcoming dates

Dates	Venue	Format	Fee per delegate
16 to 20 November 2026	Online	Online	R8,500
23 to 27 November 2026	Pretoria, South Africa	Classroom	R19,950
8 to 12 March 2027	Johannesburg, 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**.

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