



## HEALTH, SAFETY AND SECURITY TRAINING

# Radiation Safety and Radioactive Source Management

3 day course

Classroom, online or in-house

## Course overview

Industrial radiation sources sit in level gauges, density meters, radiography equipment and laboratory instruments across mining and process industry, and they are licensed items whose loss or misuse is a regulatory and public safety event. This course covers controlling them. Delegates work through radiation types, units and biological effect, dose limits and the principles of time, distance and shielding, and monitoring including dosimetry and area survey. The licensing and regulatory framework is covered, along with the responsibilities of a radiation protection officer. Source security, inventory, transport and disposal follow, since an orphaned source is the serious scenario. Radiography operations and controlled areas are addressed. The course closes on emergency response and on incident reporting.

## What you will learn

- Explain radiation types, units and biological effect
- Apply dose limits and the principles of time, distance and shielding
- Operate dosimetry and area monitoring programmes
- Meet licensing requirements and the duties of a protection officer
- Secure, inventory, transport and dispose of sources
- Control radiography operations and controlled areas
- Respond to a radiation incident and report it correctly

## Who should attend

- Radiation protection officers and safety staff
- Instrumentation technicians working with nucleonic gauges
- Industrial radiography personnel
- Laboratory staff using radioactive materials
- Regulators and inspectors

## Course outline

- 01 Licensed items in ordinary equipment
- 02 Radiation types, units and biological effect
- 03 Dose limits and protection principles
- 04 Dosimetry and area monitoring
- 05 Licensing and the protection officer role
- 06 Source security, inventory and transport
- 07 Radiography and controlled areas
- 08 Disposal, emergency response and reporting

## Upcoming dates

| Dates                   | Venue                 | Format    | Fee per delegate |
|-------------------------|-----------------------|-----------|------------------|
| 21 to 23 September 2026 | Online                | Online    | R6,500           |
| 14 to 16 December 2026  | Maputo, Mozambique    | Classroom | USD 995          |
| 28 to 30 December 2026  | Harare, Zimbabwe      | Classroom | USD 995          |
| 13 to 15 January 2027   | Port Louis, Mauritius | Classroom | USD 995          |



## 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](http://www.afrisciencegroup.com), email [info@afriscience.co.za](mailto:info@afriscience.co.za), or WhatsApp us on **+27 63 479 1136**.

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