



OIL, GAS AND PETROCHEMICALS TRAINING

NORM and Radiation Safety in Oil and Gas

5 day course

Classroom, online or in-house

Course overview

Scale scraped from production tubing can carry enough radium to count as radioactive waste, and crews who cut, grind or blast such equipment without controls take that dose home with them. The course explains where naturally occurring radioactive material comes from in a reservoir and how radium, lead 210 and radon concentrate in scale, sludge and gas processing equipment. Radiation fundamentals, dose limits and the ALARA principle come next, followed by survey instruments and contamination monitoring. Practical controls then take centre stage: area classification, protective equipment, decontamination, waste packaging, storage, disposal routes and transport. Sealed sources used in industrial radiography and nucleonic gauges are covered as a separate hazard. Safety staff leave able to run a NORM survey programme and supervise contaminated work in line with national radiation regulations.

What you will learn

- Explain how NORM forms and accumulates in oil and gas equipment
- Describe the radiation types, units and dose limits relevant to workers
- Select and use survey meters and contamination monitors correctly
- Classify work areas and set controls under the ALARA principle
- Plan decontamination of tubulars, vessels and gas plant components
- Package, store, transport and dispose of NORM waste lawfully
- Manage sealed sources used in radiography and nucleonic gauges
- Prepare a radiation protection programme for an oil and gas site

Who should attend

- HSE advisers and radiation protection officers
- Production and maintenance supervisors
- Well services and workover crews
- Waste management and decontamination contractors
- Regulators responsible for radiation safety in industry

Course outline

- 01 Origins of NORM in petroleum systems
- 02 Radiation fundamentals and units
- 03 Health effects and dose limits
- 04 Survey instruments and monitoring
- 05 Work controls and protective equipment
- 06 Decontamination methods
- 07 Waste handling, transport and disposal
- 08 Sealed sources and the radiation protection programme

Upcoming dates

Dates	Venue	Format	Fee per delegate
16 to 20 November 2026	Harare, Zimbabwe	Classroom	USD 1,325
14 to 18 December 2026	Online	Online	R8,500
22 to 26 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**.

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