



COMPANY PROFILE

UPSILON CONSULTING

Your Radiation Protection Service Provider Of Choice

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The leading provider of Radiation Protection Services based in South Africa with a growing footprint across international markets.



**Leading provider
of Radiation
Protection
Specialist
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in South Africa,
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Overview

Ensuring a unique, integrated approach to radiation protection

Upsilon Consulting is a leading provider of Radiation Protection Specialist Services based in South Africa, with a growing footprint across international markets. We are dedicated to safeguarding people, environments, and organisations from the harmful effects of ionising radiation through expert consultancy, compliance assurance, and technical innovation. With us, quality and innovation within radiation protection is a matter of personal pride.



Navigating radiation protection with clarity, integrity and personalised solutions

Contents

- 6 [About the Company](#)
- 7 [What We Do](#)
- 7 [Clients](#)
- 8 [Accredited Experts](#)
- 9 [Our Services](#)
- 12 [Contact Us](#)

ABOUT

Upsilon Consulting is a leading provider of Radiation Protection Specialist Services based in South Africa, with a growing footprint across international markets. We are dedicated to safeguarding people, environments, and organisations from the harmful effects of ionising radiation through expert consultancy, compliance assurance, and technical innovation. With us, quality and innovation within radiation protection is a matter of personal pride.



Founded on a strong foundation of scientific excellence and regulatory knowledge, Upsilon Consulting and its strategic partners combine local and international expertise with global best practice, ensuring a unique, integrated approach to radiation protection, and the strategic positioning of your radiation protection requirements within your company whilst optimising and integrating your solutions.

The team's scope covers a range of sectors, including, but not limited to mining and minerals processing (NORM) and general industries, especially where radiation is incidental to the process. In addition, more than 25 years experience allows for the assistance with additional services such as environmental license (water, air, waste, EMPR) compliance audits, facilitating safety discussions within the team environment, and data management and analysis.

WHAT WE DO

At Upsilon Consulting, we offer comprehensive radiation protection solutions tailored to your industry's specific needs. Our core services include:

- Radiation Safety Assessments and Audits
- Regulatory Licensing and Compliance Support (NNR, DOH, IAEA and local standards)
- Shielding Design and Calculations Systems integration
- Radiation Protection Training and Capacity Building
- Radiation Monitoring and Surveying
- Emergency Preparedness and Response Planning
- Occupational Dose Management and Monitoring Programs
- Radiological product stewardship
- Enhancement of mine closure plans and EMPR's.
- Radiation protection program database management
- Safety, health, environment and security database management and data analysis.

CLIENTS

Dr. Riaan van der Westhuizen is a well established and experienced professional providing services to:



OUR VISION

To be the most trusted radiation protection consultancy in Africa and beyond—known for technical excellence, regulatory rigour, and a deep commitment to human and environmental health.



OUR MISSION

To empower clients to manage radiation safely and responsibly through expert guidance, strategic solutions, and unwavering dedication to protecting your legacy, even post closure.

ACCREDITED EXPERTS

Helping you navigate complex regulatory environments.

Our consultants are certified and registered with relevant professional bodies, including the South African Health Professions Council (HPCSA) and the Radiation Protection Society.



Accredited Expertise: Our consultants are certified and registered with relevant professional bodies, including the South African Health Professions Council (HPCSA) and the Radiation Protection Society.

Compliance-Driven: We help you navigate complex regulatory environments, avoiding costly delays and ensuring operational continuity.

Client-Centric Approach: We take the time to understand your operational needs and customise our services accordingly.

Global Reach: In addition to our work in South Africa, we partner with clients across Africa and abroad, offering adaptable solutions in diverse regulatory settings.

Innovation-First: We employ the latest tools, modelling software, and real-time dosimetry systems to deliver accurate, reliable protection strategies.

OUR COMPANY SERVICES

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MINE CLOSURE

Current mine closure plans generally excludes detailed consideration of radiation risk posed by the rehabilitated site post closure.

Demonstrate your preparation for a responsible and safe closure of your facility by reviewing the effectiveness of remediation measures (occupational and to the public):

- On closure
- Post closure



SAFETY, HEALTH & ENVIRONMENT

General Health, Safety, Environmental and Security Management:

- Data analysis to determine system health.
- System efficiency assessment – Within the framework of the management system
- System efficiency assessment – Within the framework of the management system, consider: Incidents, Transgressions, Potential gaps
- General SHE system development, procedural development and implementation
- Facilitating safety workshops
- Compliance verification of environmental licensing conditions.



RADIOLOGICAL PRODUCT STEWARDSHIP

There is no single solution when selling your product(s) – ore, concentrate, final product, production residues – in the local and/or international market. Why take the risk?

- Local site-specific radiation legislation
- Local regulations for the transport of radioactive material
- International regulations for the transport of radioactive material
- Client country entry and transport regulations
- Client country regulation for its own operations

In addition to providing support with local legislation, Upsilon Consulting will:

- Consider the movement of your product within the framework of international transport requirements irrespective of means.
- Determine the regulatory impact of your product within the framework of your Client's country regulatory framework.



RADIATION PROTECTION PROGRAMS

Upsilon Consulting provide the following:

Appointed Radiation Protection/Safety Specialist

- Tailormade solutions: Using first principles and not a generic program ensures that the outcome is tailormade for your site and defensible in court.
- System integration: Radiation protection procedures can be integrated with the site safety, health, environment and/or quality management system.
- Utilizing available information: Where appropriate, utilise available data generated by the company's internal systems and processes to (a) ensure alignment between radiation protection and other legal requirements and (b) safe cost.
- Radiation Safety Assessments: For both public and occupational, part of a management of change process or new facilities / processes.

Dr Riaan vd Westhuizen has dual experience as a specialist (radiation protection) and SHE generalist of nearly 30 years.

- Radiation safety assessment
- Legislation
- Compliance and system optimisation
- Integrated site-specific procedures

A radiation worker safety assessment protects your workers, but a public safety assessment protects the community and your reputation.



SAFETY ASSESSMENTS AND PROTECTION PROGRAMS

At Upsilon Consulting, we specialize in delivering expert Safety Assessments and Protection Programs that ensure operational integrity, regulatory compliance, and the health and safety of your personnel. Our tailored approach begins with a comprehensive evaluation of your facility, processes, and infrastructure to identify existing and potential hazards. We then develop practical, risk-based recommendations that align with both local and international safety standards, including those from the IAEA and other regulatory bodies.

Our Safety Assessments are structured to support industries such as healthcare, mining, energy, and industrial sectors where exposure to radiation and other high-risk elements may occur. We conduct detailed audits, exposure pathway analysis, shielding calculations, safety culture evaluations, and systems integration reviews. These assessments are designed not just to flag areas of concern but to provide actionable insights that lead to measurable safety improvements.

In tandem, our Protection Programs are built to help clients establish a robust safety culture. This includes designing and implementing Occupational Radiation Protection Programs, emergency preparedness plans, monitoring and dose management systems, and ongoing training and capacity building for staff. Our programs are proactive and preventative, equipping organizations to handle incidents efficiently while maintaining compliance and operational continuity.

Ultimately, Upsilon Consulting is your partner in creating safer workplaces through science-based strategies, regulatory expertise, and hands-on implementation support.



NICHE RADIATION SAFETY SERVICES

Radiological product stewardship

Your product (whether an ore, concentrate or valuable residue you want to sell) may unknowingly impact your client, or be turned around at the border, creating additional cost and negative publicity for your company. Upsilon Consulting will provide a basic assessment of the impact of your product's radioactive isotope content within the framework of your client's legislation.

Protecting your legacy

Ease of mind during operations and post closure. We provide radiological assessments for inclusion in mine closure plans and/or Environmental Management Programs, and/or determine the effectiveness of your mine closure plan in managing the radiological risk of your mining remnants post closure.

Nuclear authorization compliance audits

Sometimes a pair of fresh eyes are needed to evaluate your radiation protection management system and provide an independent evaluation, firstly to confirm compliance, but also to determine potential areas for optimization.

Integration Of Radiation Protection Procedures In SHEQ System

Generally, radiation protection management is treated as a separate program. It does not need to be. Our understanding of general safety, health, environment and quality systems will allow for full or partial integration of radiation protection with your SHEQ program, to ensure a radiation protection can also be audited when you are doing your certification audits.

Radiation Protection Database Management.

Your radiation protection program generates a lot of data, and it is not always managed in such a way that it is easily accessible and in a format appropriate for use. We shall record your information in a database and maintain such database until such time it is handed over to your company

Training and Capacity Building in Radiation Protection

Empowering your team with the knowledge and skills necessary to understand and manage radiological risks is crucial for sustained compliance and operational safety. Upsilon Consulting offers tailored training programs covering basic radiation protection principles, regulatory requirements, safe handling of NORM (Naturally Occurring Radioactive Material), and implementation of site-specific procedures. Training can be adapted for operational, supervisory, or management levels to ensure all staff are adequately equipped to uphold your company's radiation safety culture.

Contact Us

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Visit our website for more information :

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