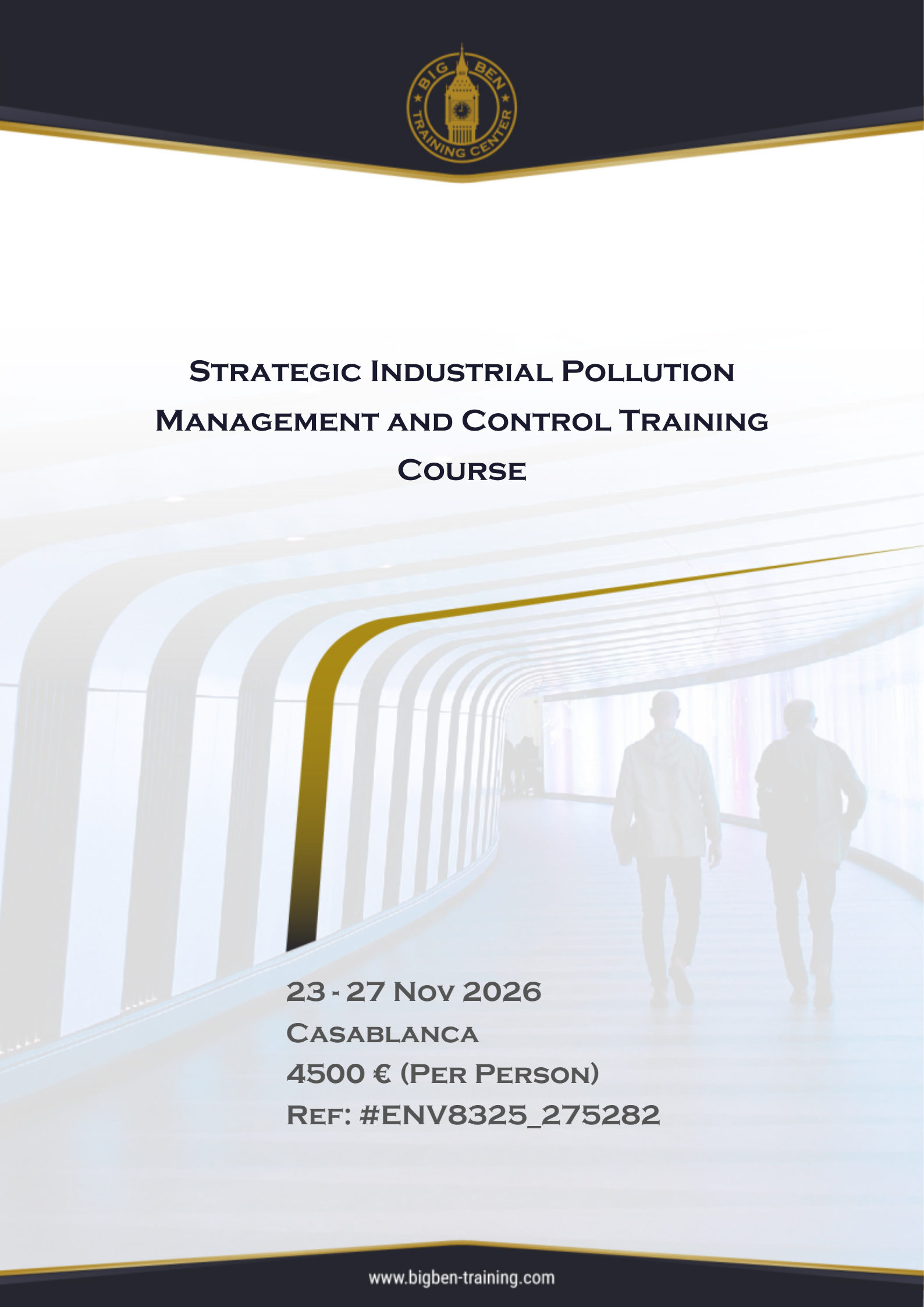
Strategic Industrial Pollution Management and Control Training Course



23 - 27 Nov 2026

Casablanca

4500 € (Per Person)

Ref: #ENV8325_275282

Course Introduction / Overview:

This comprehensive training course provides an in-depth exploration of the principles and practices of industrial pollution control and environmental compliance. In an era of increasing regulatory scrutiny and public demand for corporate environmental responsibility, mastering these concepts is no longer optional but a strategic imperative for sustainable industrial operations. This program is meticulously designed to equip professionals with the knowledge and skills to navigate the complex landscape of environmental regulations, implement effective pollution prevention techniques, and foster a culture of environmental stewardship within their organizations. Drawing on established principles from leading academics like Mackenzie L. Davis, author of "Introduction to Environmental Engineering and Science", the course integrates theoretical foundations with practical, real-world applications. Participants will learn to identify pollution sources, evaluate control technologies, and develop robust environmental management systems. BIG BEN Training Center has developed this course to transform compliance challenges into opportunities for operational efficiency, risk reduction, and enhanced corporate reputation, ensuring your organization remains at the forefront of sustainable industrial practice.

Target Audience / This training course is suitable for:

- Environmental Managers and Specialists.
- Health, Safety, and Environment (HSE) Officers.
- Compliance and Regulatory Affairs Professionals.
- Plant and Operations Managers.
- Chemical and Process Engineers.
- Quality Assurance and Control Managers.
- Corporate Social Responsibility (CSR) Coordinators.
- Project Managers in industrial sectors.
- Government Environmental Inspectors and Regulators.
- Consultants in environmental management and engineering.

Target Sectors and Industries:

- Manufacturing and Production.
- Oil and Gas Exploration and Refining.
- Chemical and Petrochemical Industries.
- Power Generation and Utilities.
- Pharmaceutical and Biotechnology.
- Mining and Mineral Processing.
- Construction and Heavy Industry.
- Waste Management and Recycling.
- Food and Beverage Processing.
- Governmental and Non-Governmental Environmental Agencies.

Target Organizations Departments:

- Environmental, Health, and Safety (EHS).
- Operations and Production.
- Legal and Compliance.
- Engineering and Maintenance.
- Quality Assurance and Quality Control (QA/QC).
- Corporate Social Responsibility (CSR).
- Research and Development (R&D).
- Supply Chain and Logistics.
- Facilities Management.
- Risk Management.

Course Offerings:

By the end of this course, the participants will have able to:

- Develop and implement effective environmental compliance strategies.
- Analyze and interpret key national and international environmental regulations.
- Identify and assess sources of industrial air, water, and soil pollution.
- Evaluate and select appropriate pollution control technologies and systems.
- Master the principles of solid and hazardous waste management.
- Conduct a comprehensive Environmental Impact Assessment (EIA).
- Implement and audit an Environmental Management System (EMS) based on ISO 14001.
- Formulate pollution prevention (P2) and waste minimization plans.
- Manage environmental risks and develop emergency response procedures.
- Integrate principles of the circular economy into industrial processes.
- Prepare and manage sustainability and environmental performance reports.

Course Methodology:

This training course at BIG BEN Training Center employs a dynamic and interactive learning methodology designed for maximum knowledge retention and practical application. We believe that adult learning is most effective when it is engaging, relevant, and participatory. The methodology is centered around a blended approach that combines expert-led presentations with intensive, hands-on activities. Participants will engage in detailed case study analyses of real-world industrial pollution incidents and successful compliance programs, allowing them to dissect complex scenarios and understand practical challenges. Interactive group workshops and brainstorming sessions will be used to develop pollution control strategies and environmental management plans, fostering collaborative problem-solving skills. The course includes practical exercises in risk assessment, environmental auditing simulations, and technology evaluation. Open Q&A sessions and facilitated discussions encourage the sharing of experiences and insights among participants from diverse industries. This immersive approach ensures that participants not only grasp the theoretical concepts but also gain the confidence to apply them directly to their professional roles upon returning to the workplace.

Course Agenda (Course Units):

Unit One: Foundations of Environmental Compliance and Pollution Science

- Introduction to industrial pollution and its ecological impact.
- Overview of major international environmental treaties and protocols.
- Understanding the legal framework for environmental protection.
- Key principles of environmental law and regulatory compliance.
- Introduction to Environmental Management Systems (EMS) and ISO 14001.
- The role of corporate social responsibility in environmental management.
- Fundamentals of environmental chemistry and toxicology.

Unit Two: Air Pollution Control and Management

- Characterization of major air pollutants and their sources.
- Principles of atmospheric dispersion modeling.
- Technologies for controlling particulate matter emissions.
- Methods for controlling gaseous pollutants (SOx, NOx, VOCs).
- Air quality monitoring and sampling techniques.
- Regulatory standards for ambient and source air quality.
- Developing an effective air emission management program.

Unit Three: Water and Wastewater Treatment

- Sources and characteristics of industrial wastewater.
- Fundamentals of physical, chemical, and biological water treatment processes.
- Advanced wastewater treatment technologies and water reuse.
- Design and operation of industrial effluent treatment plants (ETPs).
- Sludge management and disposal techniques.
- Water quality monitoring and regulatory compliance for discharge.
- Strategies for industrial water conservation and management.

Unit Four: Solid and Hazardous Waste Management

- Classification of solid and hazardous wastes.
- The waste management hierarchy: reduce, reuse, recycle.
- Technologies for solid waste treatment and disposal.
- Regulations for handling, storage, and transport of hazardous materials.
- Principles of landfill design and operation.
- Introduction to circular economy concepts in waste management.
- Developing an integrated waste management plan for industrial facilities.

Unit Five: Advanced Environmental Management and Auditing

- Conducting an Environmental Impact Assessment (EIA).
- Techniques for environmental risk assessment and management.
- Principles and procedures of environmental auditing.
- Managing non-compliance and corrective action planning.
- Developing and implementing emergency preparedness and response plans.
- Sustainability reporting and environmental performance metrics.
- Future trends in pollution control and environmental regulation.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

Beyond regulatory compliance, how can industries transform pollution control from a cost center into a strategic driver for innovation and competitive advantage?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by adopting a strategic, holistic perspective on environmental management that transcends mere regulatory compliance. While many programs focus narrowly on specific regulations or technologies, this training integrates the technical, legal, and managerial dimensions of pollution control into a cohesive framework. It emphasizes the proactive implementation of Environmental Management Systems (EMS) and pollution prevention (P2) strategies, empowering participants to reduce environmental impact at the source rather than relying solely on end-of-pipe solutions. A key differentiator is the strong focus on risk management and the practical application of concepts like the circular economy, preparing professionals for the future of sustainable industry. The curriculum is enriched with complex, real-world case studies that challenge participants to apply their learning to nuanced scenarios, fostering critical thinking and problem-solving skills that are directly transferable to their workplace. The course moves beyond theory to cultivate a mindset of continuous improvement and strategic environmental stewardship, positioning participants as leaders who can drive both compliance and competitive advantage.