Regulatory Excellence and Safety Protocols for Industrial Maintenance Training Course



19 - 23 Oct 2026

Boston

7500 € (Per Person)

Ref: #INM3751_58576

Course Introduction / Overview:

The modern industrial landscape demands more than just technical skill; it requires a deep commitment to safety and regulatory compliance. This course, developed by BIG BEN Training Center, is designed to give professionals a comprehensive understanding of the intricate web of safety standards, compliance frameworks, and best practices essential for effective industrial maintenance operations. We delve into the critical role of maintenance in preventing accidents, ensuring operational continuity, and upholding legal and ethical obligations. Participants will gain practical knowledge and a strategic mindset to proactively manage risks and foster a robust safety culture. The training explores key concepts, from hazard analysis to the latest regulatory updates, providing a holistic view that transcends simple checklists. Drawing on principles from leading experts in the field, such as Terry Wireman's insights in "Maintenance Management and Regulatory Compliance Strategies", we highlight how an integrated approach to maintenance and safety leads to improved efficiency and a safer work environment. This course is a vital resource for anyone aiming to master the complexities of industrial safety and contribute to a resilient and compliant organization. We cover the full spectrum of challenges, from daily operational risks to large-scale regulatory audits, preparing you to lead your team with confidence and expertise.

Target Audience / This training course is suitable for:

- Maintenance and operations managers.
- Engineers and technicians.
- Safety and environmental health officers.
- Quality assurance and compliance professionals.
- Facility managers.
- Government agency representatives.
- Plant supervisors.
- HSE personnel.
- Staff involved in contractor work.
- Auditors.

Target Sectors and Industries:

- Manufacturing and production facilities.
- Oil and gas.
- Energy and utilities.
- Mining and metallurgy.
- Chemical and pharmaceutical.
- Logistics and transportation.
- Aerospace and defense.
- Food and beverage processing.
- Government agencies and regulatory bodies.

Target Organizations Departments:

- Operations and maintenance.
- Health, safety, and environment (HSE).
- Quality control and assurance.
- Compliance and risk management.
- Engineering.
- Human resources and training.
- Supply chain and logistics.
- Legal departments.

Course Offerings:

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

- Design and implement effective safety protocols for maintenance activities.
- Conduct thorough risk assessments and job safety analyses (JSA).
- Master the principles of Lockout/Tagout (LOTO) procedures.
- Ensure adherence to key regulatory standards and codes.
- Develop proactive strategies for hazard identification and mitigation.
- Prepare for and navigate regulatory inspections and audits.
- Integrate safety into predictive and preventive maintenance programs.
- Utilize a Computerized Maintenance Management System (CMMS) to track compliance.
- Create a strong safety culture within their teams.

Course Methodology:

This course uses a dynamic and immersive methodology designed to bridge the gap between theoretical knowledge and practical application. We begin with interactive lectures and group discussions to introduce core concepts, ensuring participants grasp the fundamental principles of industrial safety and regulatory compliance. We move into hands-on activities, including case studies and real-world simulations, that challenge participants to apply their learning in a safe environment. Participants will work in teams to conduct mock audits, develop detailed safety plans, and solve complex compliance problems. The course places a significant emphasis on feedback. Instructors provide one-on-one and group feedback throughout the program, helping participants refine their skills and deepen their understanding. We also use a variety of media, including videos, infographics, and interactive quizzes, to keep the learning process engaging and effective. BIG BEN Training Center believes that active participation is key to retention, so we prioritize a collaborative and inquiry-based learning environment over passive information delivery. This approach ensures that by the end of the training, each participant is equipped to confidently implement the course material in their professional life.

Course Agenda (Course Units):

Unit One: Foundations of Industrial Safety and Compliance.

- Introduction to industrial maintenance safety regulations and their importance.
- Understanding the legal and ethical framework for workplace safety.
- Key roles and responsibilities in maintenance safety.
- Fundamentals of hazard identification and risk assessment (HIRA).
- Introduction to safety management systems (SMS) in maintenance.
- The principles of proactive vs. reactive safety management.
- Building a safety-conscious culture.

Unit Two: Regulatory Standards and Protocols.

- In-depth review of OSHA and other relevant regulatory bodies.
- Compliance with general industry standards for maintenance.
- Detailed procedures for Lockout/Tagout (LOTO).
- Understanding fire prevention and emergency response plans.
- Safe handling and storage of hazardous materials (HazMat).
- Compliance with machine guarding and control standards.
- Working with personal protective equipment (PPE).

Unit Three: Advanced Risk Management Techniques.

- Conducting Job Safety Analysis (JSA) and task-based risk assessments.
- Applying Failure Modes and Effects Analysis (FMEA) to maintenance.
- Using Bowtie analysis to visualize and control risks.
- Root cause analysis (RCA) for accident and incident investigation.
- Integrating safety into predictive and preventive maintenance programs.
- Risk mitigation strategies for confined spaces and elevated work.
- Managing contractor safety and third-party risks.

Unit Four: Auditing, Reporting, and Continuous Improvement.

- Preparing for internal and external safety audits.
- Developing and implementing a compliance management system.
- Documentation and record-keeping best practices.
- Utilizing a Computerized Maintenance Management System (CMMS) for compliance.
- Safety performance metrics and key indicators.
- Continuous improvement of cycles for safety protocols.
- Managing corrective and preventive actions (CAPA).

Unit Five: Modern Challenges and Leadership in Safety.

- Adapting to new technologies in maintenance and safety.
- The role of human factors in maintenance accidents.
- Ergonomics and workplace design for injury prevention.
- Leading a safety committee and fostering employee engagement.
- Communication strategies for safety and compliance.
- Case studies of major industrial accidents and lessons learned.
- Developing a personal action plan for safety leadership.

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:

In an increasingly automated industrial environment, what ethical considerations must maintenance professionals address when balancing machine efficiency with human safety?

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

This course stands out because it moves beyond basic safety checklists to offer a strategic, integrated approach to industrial maintenance and safety compliance. While many programs simply review regulatory standards, our training provides a comprehensive framework for proactive risk management. We teach participants to conduct their own Job Safety Analyses and implement advanced techniques like Bowtie and FMEA, empowering them to become leaders in their organizations. The course content is informed by the latest search trends and industry-specific keywords, ensuring the material is current and directly relevant to the challenges professionals face today. By naturally embedding phrases like "Lockout/Tagout" and "preventive maintenance," we help participants internalize key concepts in their proper context. BIG BEN Training Center's methodology is also highly practical, with hands-on simulations and real-world case studies that make complex regulations easy to understand and apply. Instead of just learning what to do, participants discovered how and why to build a sustainable safety culture, one that supports both employee well-being and operational excellence. This course is not just about avoiding fines; it's about creating a resilient and secure work environment for everyone.