5-DAY INTENSIVE TRAINING WORKSHOP

Certified Professional in Quality Assurance & Integrated Risk Management

Ensure excellence and resilience through proactive quality and risk alignment.



GLOBAL TRAINING INSTITUTE

Course Description

This certification provides a practical and integrated approach to modern quality assurance (QA) and risk management (RM). Participants will learn how to build and maintain effective systems that prevent defects, reduce risks, and ensure compliance with international standards. The course focuses on tools and methods that improve processes, support decision-making, and strengthen safety and quality in day-to-day operations. Emphasis is placed on real-world applications in industries where quality and safety are critical.

Who Should Certify

This program is ideal for professionals working in or aspiring to roles involving quality and risk control, including:

- Quality Assurance Managers and Officers
- Risk and Compliance Specialists
- HSE Supervisors and Operational Leaders
- Engineers and Project Managers
- Auditors and Continuous Improvement Professionals
- Professionals in regulated industries (pharma, oil & gas, manufacturing, etc.)

Course Objectives

Upon completion of this certification, participants will be able to:

- Develop and manage Quality and Risk Management Systems aligned with ISO standards (ISO 9001, 31000, 45001)
- Use Six Sigma and statistical tools to analyze and improve process quality
- Identify and assess risks using tools like FMEA, HAZOP, Bowtie, and LOPA
- Design control measures and safety systems to reduce operational risks
- Investigate incidents using Root Cause Analysis (RCA) and prevent recurrence
- Set performance and risk indicators to monitor and improve operations
- Ensure regulatory compliance through auditing and change control processes
- Apply digital tools and AI for predictive quality and risk analytics

Course Content

Module 1: Foundations of QA & Risk Management

- Overview of global standards (ISO 9001, 31000, 45001)
- Role of leadership in quality and risk culture
- Integrating quality and risk into one management system
- Moving from reactive to proactive and predictive approaches

Module 2: Quality Management Systems & Tools

- The PDCA cycle and process-based thinking
- Using control charts and capability indices for SPC
- Lean Six Sigma basics: DMAIC, waste reduction, DoE
- Measurement system analysis and calibration
- Managing supplier quality and supply chain risk

Module 3: Risk Assessment Techniques

- Hazard identification (HAZID), HAZOP, and human factors
- Failure Mode and Effects Analysis (FMEA/FMECA)
- Bowtie diagrams for visualizing risks and controls
- LOPA and Independent Protection Layers
- Introduction to Quantitative Risk Assessment (QRA)

Module 4: Risk Control & Mitigation

- Applying the hierarchy of controls
- Safety Instrumented Systems (SIS) basics and functional safety
- Using RAMS for reliability and availability analysis
- Emergency planning and business continuity
- Incident investigation using 5 Whys, Fishbone, and TapRooT

Module 5: Monitoring, Auditing & Improvement

- Setting KPIs and KRIs to measure quality and risk
- Using analytics and machine learning for prediction
- Audit planning and execution (based on ISO 19011)
- Managing non-conformities and corrective actions (CAPA)
- Managing changes for continuous compliance
- Digital tools: QA/RM software, digital twins, predictive maintenance

Certificate Accreditations

The Certificate **Certified Professional in Quality Assurance & Integrated Risk Management** course equips participants with key skills and knowledge for career success. It enhances credibility and provides insights into industry standards. Through theory and practical application, it prepares individuals for real-world challenges, offering expert instruction and networking opportunities.

This course will be accredited by one of the following organizations. Please contact us for more information.

Cambridge Training College Britain

INSTITUTE OF SUPPLY CHAIN MANAGEMENT MENA

IBIU UNIVERSITY



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