5-DAY INTENSIVE TRAINING WORKSHOP

Certified Operational Excellence Specialist (COES)

Optimize operations to deliver consistent excellence and efficiency.



GLOBAL TRAINING INSTITUTE

Course Description

This practical certification program helps professionals lead and sustain operational excellence in industrial environments. It focuses on improving processes, equipment reliability, digital tools, and sustainable practices to build safe, efficient, and high-performing operations. Through real-world tools and techniques, participants will learn how to reduce downtime, increase efficiency, support digital transformation, and lead continuous improvement efforts that deliver measurable results.

Who Should Certify

This course is ideal for professionals involved in improving plant operations, maintenance, safety, and performance, including:

- Heads of Operations and Plant Managers
- Production and Reliability Engineers
- Maintenance and Asset Integrity Leaders
- HSE and Risk Management Professionals
- Digital Transformation and Industry 4.0 Leaders
- Lean Six Sigma and Continuous Improvement Experts
- Senior Technical Consultants and Advisors
- Future leaders in operational and technical roles

Course Objectives

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

- Build a clear plan for operational excellence that aligns with business goals
- Use digital tools, AI, and analytics for better maintenance and decision-making
- Improve plant processes and energy efficiency using proven methods
- Strengthen safety, reliability, and risk management practices
- Apply Industry 4.0 technologies for real-time data and smarter operations
- Support sustainability and reduce environmental impact
- Lead change, develop teams, and drive a continuous improvement culture

Course Content

Module 1: Operational Excellence Strategy

- Building an integrated strategy using Lean, Six Sigma, TPM, and APM
- Improving performance across the full value chain
- Setting and tracking KPIs
- Making decisions using risk-based tools and structured change processes

Module 2: Process Optimization and Control

- Real-time process optimization and advanced controls
- Using technologies like membrane separation and heat recovery for better efficiency
- Applying soft sensors and data models for process monitoring
- Managing energy use and improving utility systems

Module 3: Asset Integrity and Reliability

- Predictive and prescriptive maintenance using modern tools and AI
- Using digital twins for maintenance planning and scenario analysis
- Preventing corrosion, wear, and failures in critical equipment
- Applying RCM, FMEA, and safety lifecycle approaches to key assets

Module 4: Digital Tools and Operational Intelligence

- Setting up cloud, and edge computing for connected operations
- Applying AI and analytics to detect issues early and improve quality
- Ensuring cybersecurity of industrial systems and networks

Module 5: Sustainability and Environmental Excellence

- Reducing carbon emissions and adopting green technologies (CCUS, green hydrogen)
- Embracing circular economy and waste reduction strategies
- Managing water usage and environmental compliance
- Integrating sustainability across supply chains and operations

Module 6: Leadership and Culture

- Leading change and building an agile, responsive organization
- Enhancing human reliability through performance tools and safety culture
- Empowering teams with Lean leadership and continuous improvement mindset
- Capturing knowledge and building future leaders

Certificate Accreditations

The Certificate **Certified Operational Excellence Specialist (COES)** 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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