MERCURY

Manufacturing Excellence Training Conference

3 – 7 May 2027
Johannesburg (South Africa)



Dubai - UAE: +971 4 450 5697
Istanbul - Türkiye: +90 539 599 1206
Amman - Jordan: +962 79 712 3347

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Ref: 15369_1063377 **Date:** 3 – 7 May 2027 **Location:** Johannesburg (South Africa) **Fees:** 5300 Euro

Introduction:

Building Operational Excellence into the Process Industry has been designed to explain the main factors of operational excellence and how to make them into a coherent improvement training for the process industry. The latest tools and techniques are introduced and explained with a minimum of jargon so that delegates can see how to use them.

Participants will explore the definition, role, and essentials for becoming a Manufacturing Excellence Specialist. This manufacturing excellence conference will cover critical methodologies that specialists employ to optimize production lines and enhance output quality. Attendees will gain insight into the comprehensive meaning of manufacturing excellence and be empowered to foster an environment that relentlessly pursues it within their respective organizations.

Targeted Groups:

- Operations Professionals.
- Process Professionals.
- Reliability and Maintenance Professionals.
- Safety Professionals.
- Other professionals are involved in process improvement.

Conference Objectives:

Participants in this manufacturing excellence conference will be able to:

- Describe how to apply the total quality management TQM approach to drive quality excellence within your organization.
- Analyze manufacturing systems against best practices, acquiring relevant techniques in setting up a world-class quality system.
- Discuss the various frameworks, standards, models, and techniques that will enable you to build a productive and cost-efficient manufacturing system.
- Evaluate and eliminate non-value activities that hinder process and material flow in manufacturing processes.
- Identify all the various dimensions and principles of quality management.
- Explain various concepts and techniques required for problem-solving and process improvement.

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Targeted Competencies:

At the end of this manufacturing excellence training, the target competencies will:

- Process Optimization.
- Lean Manufacturing Techniques.
- Quality Management Systems.
- Data-Driven Decision Making.
- Operational Efficiency.
- Continuous Improvement Strategies.
- Technology Integration.
- Supply Chain Management.
- Workforce Training and Development.
- Risk Management and Safety Protocols.

Global Manufacturing Excellence:

Enhancing global competitiveness in manufacturing involves adopting an integrated manufacturing excellence strategy. This strategy must be comprehensive, leveraging a manufacturing excellence system incorporating sustainable models and tools to optimize processes, ensure quality, and drive continuous improvement. In this segment, participants will learn how global standards can be implemented to create a cohesive, efficient, and globally competitive manufacturing environment.

Conference Content:

Unit 1: Operational Excellence Fundamentals:

- Operational Excellence: Finding Hidden Opportunities in Your Organization.
- Problem Solving and Root Cause Analysis.
- Introduction to Waste Reduction.
- Standard Work and Process Mapping.

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Unit 2: Operational Excellence Core Tools:

- Principles of Lean Manufacturing Workshop with Simulation.
- Value Stream Management.
- Problem Solving and Root Cause Analysis.
- Workplace Organization 5S and Visual Management.
- Changeover Reduction.
- Total Productive Maintenance.
- Error Proofing.
- Effective Kaizen Events.
- Cellular Manufacturing.

Unit 3: Quality System Fundamentals:

- Quality System Executive.
- Quality System Fundamentals for the Non-Quality Professional.
- Quality Management System Internal Auditor:
    - ISO 9001-2015.
    - AS9100 rev D.
    - IATF 16949-2016.
    - ISO 13485-2016.

Unit 4: Quality Management System Core Tools:

- Advanced Product Quality Planning.
- Production Part Approval Process.
- Process Failure Mode and Effects Analysis.
- Measurement System Analysis.
- Statistical Process Control.

Unit 5: Quality Inspector/Technician:

- Problem Solving and Root Cause Analysis.
- Introduction to Statistics and Process Standardization.
- Metrology and Gage Repeatability and Reproducibility.