



## course : Operational Excellence in Manufacturing

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| <b>City :</b>       | Istanbul   | <b>Hotel :</b>    | Turkey     |
| <b>Start Date :</b> | 2025-12-22 | <b>End Date :</b> | 2025-12-26 |
| <b>Duration :</b>   | 1 Week     | <b>Price :</b>    | 3950 \$    |



## Course Overview

In today's dynamic manufacturing landscape, characterized by rising customer expectations, global competition, and the rapid integration of Industry 4.0 technologies, achieving mere efficiency is no longer sufficient for sustained success.

The Operational Excellence in Manufacturing Course provides a strategic framework to go beyond traditional practices, embedding a holistic culture of continuous improvement and innovation.

Operational Excellence (OpEx) is a management philosophy that ensures organizations consistently deliver superior value, eliminate waste, and drive sustainable performance across all levels. This course explores the integration of Lean and Six Sigma methodologies to streamline processes, enhance product quality, and minimize variability.

Participants will develop and implement robust performance measurement systems, foster effective leadership, and cultivate a culture of employee engagement and customer-centric thinking, ultimately building a more agile, resilient, and profitable manufacturing operation.

## Course Objectives

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

Understand the core principles and essential building blocks for achieving operational excellence in manufacturing.

Apply Lean and Six Sigma tools to streamline operations, reduce waste, and minimize process variability.

Develop and sustain a continuous improvement culture within manufacturing plants.

Improve operational efficiency through systematic process optimization, KPIs, and Industry 4.0 tools.

Design and execute an operational excellence roadmap aligned with organizational objectives.

Lead change and engage teams effectively to ensure long-term success in excellence initiatives.

## Target Audience

This course is ideal for professionals responsible for driving productivity, quality, and continuous improvement in manufacturing, including:

Manufacturing and Operations Managers

Production Supervisors and Plant Managers

Quality Assurance and Continuous Improvement Specialists

Industrial and Process Engineers



Supply Chain and Logistics Professionals in Manufacturing

Any professional aiming to enhance efficiency, productivity, and sustainability in manufacturing operations

## Methodology

This course uses a dynamic, participatory approach to maximize understanding and practical skill application. The instructor employs a variety of adult learning techniques, including:

Interactive lectures and discussions

Collaborative group activities

Real-world case studies and problem-solving exercises

Video presentations illustrating practical applications of OpEx principles

Participants will gain practical experience and actionable strategies that can be directly applied to their manufacturing environments.

## Course Outline

Day One: Foundations of Manufacturing Operational Excellence

Evolution of operational excellence in manufacturing

Competitive drivers: cost, quality, flexibility, speed

Key concepts: Lean, Six Sigma, Kaizen, Continuous Improvement

OpEx framework: people, process, technology, culture

Case studies of global manufacturing leaders

Day Two: Lean Manufacturing and Process Optimization

Lean principles and waste elimination (8 wastes)

Value Stream Mapping (VSM) to identify bottlenecks

Standardized work and 5S workplace organization

Just-in-Time (JIT) and pull production systems

Workshop: Developing a Lean process improvement plan

Day Three: Quality, Reliability, and Continuous Improvement

Six Sigma methodology (DMAIC) for variation reduction

Root cause analysis tools: Pareto, Ishikawa/fishbone, FMEA

Total Productive Maintenance (TPM) for equipment reliability

Embedding Kaizen and continuous improvement cycles

Group activity: Problem-solving simulation using Six Sigma tools

Day Four: Performance Measurement and Data-Driven Excellence

Key Performance Indicators (KPIs) for manufacturing excellence



Overall Equipment Effectiveness (OEE): measurement and improvement

Linking performance metrics to strategic objectives

Leveraging data analytics and Industry 4.0 tools

Workshop: Building a performance dashboard and KPI alignment plan

Day Five: Leadership, Culture, and Sustaining Excellence

Leadership's role in OpEx transformation

Managing change and overcoming resistance

Building a high-performance culture and employee engagement

Developing an Operational Excellence Roadmap

Capstone case study: Designing an end-to-end OpEx strategy for a manufacturing organization

## Certificates

On successful completion of this training course, HighPoint Certificate will be awarded to the delegates.

Continuing Professional Education credits (CPE): In accordance with the standards of the National Registry of CPE Sponsors, one CPE credit is granted per 50 minutes of attendance.