

Course No. 1629

Process Optimization & Industrial Performance Improvement Training Course

INDUSTRIAL ENGINEERING & OPERATIONAL EXCELLENCE
INDUSTRIAL ENGINEERING, MAINTENANCE & OPERATIONS

DURATION

5 Days

DELIVERY

Classroom



Course Overview

The Process Optimization & Industrial Performance Improvement Training Course is a comprehensive professional program designed to strengthen organizational efficiency, operational excellence, process effectiveness, and sustainable performance improvement. The course provides participants with practical methodologies for analyzing existing processes, identifying performance gaps, eliminating inefficiencies, and designing improved workflows that support organizational objectives.

In competitive industrial and corporate environments, process performance directly influences productivity, quality, cost, customer satisfaction, operational reliability, and resource utilization. This training course develops the analytical and managerial capabilities required to understand how processes perform, determine the root causes of inefficiencies, and implement structured improvement initiatives based on measurable performance indicators.

Participants will explore practical approaches to process mapping, process analysis, waste identification, bottleneck analysis, root cause analysis, Lean principles, performance measurement, process standardization, and continuous improvement. The course connects operational analysis with business objectives so that improvement initiatives can generate measurable and sustainable workplace results rather than isolated short-term improvements.

The Process Optimization & Industrial Performance Improvement Training Course is particularly relevant to organizations seeking to improve operational efficiency, strengthen industrial performance, optimize resources, reduce process variation, improve workflow effectiveness, and establish a stronger culture of continuous improvement. It is suitable for government entities, industrial organizations, oil and gas companies, banks, financial institutions, service organizations, and large corporations where efficient processes are essential to organizational performance.

Objectives

- Analyze existing business and industrial processes to identify inefficiencies, process gaps, unnecessary activities, and opportunities for performance improvement during the training program.
- Develop structured process maps and workflow models that clearly represent activities, responsibilities, inputs, outputs, decision points, and process interactions.

- Evaluate process performance using relevant operational, productivity, quality, cost, cycle-time, and efficiency indicators.
- Apply Lean process improvement principles to identify and reduce non-value-added activities, delays, duplication, excessive movement, overprocessing, and other forms of operational waste.
- Assess bottlenecks, constraints, process variation, and capacity limitations that negatively influence productivity and operational performance.
- Apply systematic root cause analysis techniques to distinguish underlying process problems from symptoms and recurring operational issues.
- Design practical process optimization initiatives aligned with organizational priorities, operational requirements, customer expectations, and available resources.
- Improve process efficiency by developing practical solutions for workflow simplification, standardization, resource utilization, and performance control.
- Implement appropriate performance measurement approaches to monitor improvement initiatives and evaluate their effectiveness using defined indicators.
- Strengthen continuous improvement practices by integrating process reviews, performance analysis, corrective actions, and improvement planning into routine management activities.
- Align process improvement initiatives with organizational strategy, risk considerations, quality requirements, and operational excellence objectives.
- Develop an actionable process improvement plan that identifies priorities, responsibilities, performance measures, implementation steps, and follow-up requirements by the end of the course.

Who Should Attend

The Process Optimization & Industrial Performance Improvement Training Course is designed for professionals responsible for improving operational performance, process efficiency, productivity, quality, and organizational effectiveness. It is particularly suitable for operations managers, industrial engineers, process engineers, production managers, maintenance and reliability professionals, quality managers, continuous improvement specialists, operational excellence professionals, business process analysts, performance management specialists, and project managers.

The course is also valuable for department heads, senior managers, executives, process owners, operational excellence leaders, transformation teams, supply chain professionals, and decision makers responsible for improving organizational performance. It can support professionals working across manufacturing, oil and gas, energy, utilities, banking, financial services, government, public-

sector organizations, logistics, healthcare, and other complex operating environments where process efficiency and measurable performance improvement are strategic priorities.

Learning Outcomes

- Map and document current-state processes using structured process analysis techniques.
- Identify value-adding and non-value-adding activities across operational and administrative workflows.
- Diagnose bottlenecks, delays, duplication, constraints, and process performance gaps.
- Select relevant performance indicators for evaluating process efficiency, productivity, quality, cost, and cycle time.
- Apply Lean and continuous improvement principles to practical workplace processes.
- Conduct structured root cause analysis to determine the underlying causes of recurring operational problems.
- Analyze process variation and determine opportunities for greater consistency and standardization.
- Develop future-state process designs that improve workflow efficiency and resource utilization.
- Prioritize process improvement opportunities according to business impact, feasibility, risk, and organizational priorities.
- Establish improvement measures and monitoring mechanisms for tracking implementation performance.
- Develop practical recommendations for process standardization, simplification, automation, and performance control.
- Prepare a workplace-focused process optimization and industrial performance improvement action plan.

Course Outline

DAY 01

Foundations of Process Optimization and Industrial Performance

- Understanding process optimization and its role in operational excellence
- Linking process performance with organizational strategy and business objectives
- Process thinking across industrial, corporate, government, and service environments
- Understanding process inputs, activities, outputs, customers, suppliers, and process owners
- Identifying process performance gaps and operational inefficiencies
- Introduction to process efficiency, productivity, effectiveness, and performance
- Process ownership, accountability, governance, and cross-functional process management

PRACTICAL APPLICATION OR DISCUSSION

Mapping a selected organizational process and identifying initial performance improvement opportunities

DAY 02

Process Analysis, Mapping, and Bottleneck Identification

- Principles and techniques of business process mapping
- Current-state and future-state process analysis
- Developing workflow diagrams and identifying process interactions
- Analyzing process cycle time, lead time, waiting time, and processing time
- Identifying bottlenecks, constraints, queues, handoffs, and unnecessary process steps
- Analyzing duplication, rework, delays, excessive approvals, and communication gaps
- Evaluating process capacity and resource utilization
- Using process analysis to identify high-impact improvement opportunities

PRACTICAL APPLICATION OR DISCUSSION

Conducting a detailed process analysis and developing a current-state process map with identified bottlenecks

DAY 03

Lean Principles, Waste Elimination, and Root Cause Analysis

- Fundamentals of Lean thinking and continuous process improvement
- Identifying the major categories of operational waste
- Eliminating non-value-added activities and simplifying process workflows
- Applying value-stream thinking to operational and service processes
- Understanding process variation and its effect on performance
- Root cause analysis for recurring process and operational problems
- Applying practical problem-solving techniques, including the Five Whys and cause-and-effect analysis
- Developing corrective and preventive improvement actions

PRACTICAL APPLICATION OR DISCUSSION

Analyzing a real or simulated operational problem, identifying root causes, and developing a structured improvement response

DAY 04

Performance Measurement and Process Improvement Design

- Designing effective process performance measurement systems
- Selecting key performance indicators for productivity, quality, cost, efficiency, and service performance
- Establishing process baselines and improvement targets
- Using performance data to support operational decision-making
- Designing future-state processes and improved workflows
- Process standardization, documentation, controls, and operating discipline
- Identifying opportunities for digitalization, automation, and technology-enabled process improvement
- Evaluating improvement alternatives based on impact, feasibility, cost, risk, and sustainability

DAY 04 — CONTINUED

PRACTICAL APPLICATION OR DISCUSSION

Developing a future-state process and performance measurement framework for a selected workplace process

DAY 05

Industrial Performance Improvement and Sustainable Implementation

- Building integrated process improvement initiatives and implementation roadmaps
- Prioritizing improvement projects according to organizational value and operational impact
- Managing stakeholders and organizational responsibilities during process improvement
- Establishing accountability, governance, and performance review mechanisms
- Managing resistance to process changes and strengthening improvement adoption
- Monitoring improvement results and identifying corrective actions
- Sustaining process improvements through standardization, performance reviews, and continuous improvement cycles
- Integrating process optimization with operational excellence and long-term performance management
- Developing management recommendations for sustainable industrial performance improvement

FINAL WORKSHOP, ACTION PLAN, OR IMPLEMENTATION EXERCISE

Participants develop a complete Process Optimization & Industrial Performance Improvement Action Plan covering the selected process, identified gaps, root causes, improvement initiatives, performance indicators, responsibilities, implementation priorities, and monitoring approach



Register or Request More Information

Course page: <https://quest-training.com/courses/process-optimization-industrial-performance-improvement-training-course>

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