MERCURY

Technical & Financial for Lean Manufacturing

11 – 15 January 2027
Rome (Italy)



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Ref: 15603_1083808 **Date:** 11 – 15 January 2027 **Location:** Rome (Italy) **Fees:** 6200 Euro

Introduction:

Lean manufacturing is an operational philosophy centered around maximizing productivity while minimizing waste within a manufacturing environment. Its core lies in its ability to encourage continuous improvement and actively eliminate non-value-adding activities. A solid grasp of lean manufacturing principles is a substantial advantage in today's competitive arena, catapulting businesses toward greater operational efficiency.

This Lean Manufacturing Essentials, Technical, and Financial course is meticulously designed to traverse the multifaceted technical and financial dimensions of lean manufacturing. A comprehensive understanding of both is essential for the effective implementation and upkeep of lean practices within any enterprise.

Participants in this Lean Manufacturing Essentials, Technical, and Financial training will immerse themselves into the technical methodologies and financial implications, arming themselves with the knowledge and tools required to enact measurable enhancements in productivity, quality, and profitability. They will dissect the synergies between technical prowess and financial acumen in lean manufacturing.

Targeted Groups:

- Manufacturing Engineers and Technicians.
- Operations Managers and Supervisors.
- Financial Analysts and Controllers.
- Lean Practitioners and Consultants.
- Quality Assurance Professionals.
- Supply Chain and Logistics Managers.
- Continuous Improvement Specialists.
- Executives and Business Owners.

Course Objectives

At the end of this Lean Manufacturing Essentials, Technical, and Financial course, the participants will be able to:

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- Comprehend the technical underpinnings of lean manufacturing principles.
- Identify and eradicate waste within manufacturing processes.
- Decipher the financial intricacies of lean manufacturing and its bearing on an organization's financial health.
- Refine production processes to enhance both efficiency and quality.
- Analyze vital financial information to bolster lean-driven decisions.
- Execute lean tools and techniques to foster an ethos of continuous improvement.
- Synthesize technical strategies with financial insights to champion the cause of lean manufacturing.
- Acquire actionable knowledge to pilot and propel lean projects within their professional milieu.

Targeted Competencies:

Participants in this Lean Manufacturing Essentials, Technical, and Financial training will develop competencies in:

- Grasping the Essence of Lean Principles and Methodologies.
- Technical acumen in Process Optimization and Waste Minimization.
- Financial Analysis and Cost Management Pertinent to Lean Settings.
- Implementation of Lean Tools and Techniques.
- Mastery of Lean Performance Metrics and KPIs.
- Proficiency in Value Stream Mapping and Process Flow Analysis.
- Lean Six Sigma Methodologies.
- Lean Project Management and Kaizen Event Coordination.

Course Content:

Unit 1: Introduction to Lean Manufacturing Principles:

- Delve into the lean manufacturing definition, concepts, and historical context.
- Expatiate on pivotal principles such as value stream mapping and just-in-time production.
- Discuss the significance of minimizing waste and endorsing continuous betterment.
- Evaluate case studies that showcase the triumphant execution of lean principles across various sectors.
- Introduction to various lean manufacturing tools and methodologies, including 5S, Kanban, and Poka-Yoke.

Unit 2: Technical Foundations of Lean Manufacturing:

- Detailed exploration of process optimization techniques.
- Analysis of diverse lean manufacturing tools and their application within manifold manufacturing scenarios.
- Comprehension of the lean production systems and their integral elements.
- Hands-on exercises aimed at simulating lean processes and pinpointing opportunities for enhancement.
- Exploration of the latest lean manufacturing technologies and automated solutions.

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Unit 3: Financial Analysis for Lean Manufacturing:

- Introduction to key financial measures in lean manufacturing, including total cost of ownership and return on investment.
- Examination of cost drivers and the formulation of cost-reduction strategies in Lean contexts.
- Techniques for crafting budgets and forecasts that accommodate the principles of lean operations.
- A comprehensive look at case studies delineating the financial windfalls of adopting lean practices.
- Discuss quantifying the monetary influence of lean initiatives and justifying the associated expenditure.

Unit 4: Integration of Technical and Financial Strategies:

- Analyze the connection between technical advancements and fiscal outcomes in lean manufacturing.
- Methods to synchronize technical objectives with fiscal ambitions within an enterprise.
- Examine scenarios where the amalgamation of technical and financial strategies has led to triumph.
- The role of interdisciplinary teams in the deployment of cohesive strategies.
- Practical exercises to conceive and execute plans to amalgamate technical and financial ventures.

Unit 5: Implementing and Sustaining Lean Practices:

- Comprehensive guidelines for the introduction of lean practices in manufacturing operations.
- Tackling ubiquitous challenges and reluctance to change within the organizational fabric.
- Discussion on preserving lean initiatives through active employee involvement and cultural transformation.
- Scrutiny of leadership principles in lean contexts and the identification of best practices.
- Methodologies for the ongoing assessment and perpetuation of lean enhancements.