



Quality Management & Operational Excellence

# Lean Manufacturing Principles and Practices

## Course Introduction

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**This 5-day course introduces** participants to the fundamental concepts and tools of Lean Manufacturing. It covers the history and philosophy of Lean, core Lean tools and techniques, continuous improvement methodologies, Lean leadership, and advanced Lean concepts. Participants will learn how to identify and eliminate waste, improve process efficiency, and foster a culture of continuous improvement in manufacturing environments.

## Target Audience

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The Lean Manufacturing Principles and Practices course is designed for:

- Manufacturing & Production: Engineers, technicians, and managers.
- Quality Management: Quality engineers, Six Sigma practitioners.
- Supply Chain & Logistics: Inventory, procurement, and operations managers.
- Continuous Improvement & Lean Practitioners: Lean coordinators, Kaizen facilitators.
- Business Leaders & Other Sectors: Healthcare, IT, and service professionals applying Lean.

Lean.

Ideal for anyone focused on efficiency, waste reduction, and quality improvement.

## Learning Objectives

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- Understand the history, philosophy, and core principles of Lean Manufacturing
- Identify and eliminate the 8 wastes in manufacturing processes
- Apply key Lean tools such as 5S, Value Stream Mapping, and Just-In-Time production
- Implement continuous improvement methodologies like PDCA and Kaizen
- Develop Lean leadership skills and create a culture of continuous improvement
- Integrate Lean with other improvement methodologies like Six Sigma

- Create a Lean implementation plan for your organization

## Course Outline

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### • 01 DAY ONE

#### **Introduction to Lean Manufacturing Objectives:**

- Understand the history and philosophy of Lean
- Identify the 8 wastes in manufacturing
- Recognize the value of Lean in modern manufacturing

### • 02 DAY TWO

#### **Core Lean Tools and Techniques Objectives:**

- Learn and apply 5S methodology
- Understand Value Stream Mapping (VSM)
- Implement Just-In-Time (JIT) production principles

### • 03 DAY THREE

#### **Continuous Improvement and Problem Solving Objectives:**

- Master the PDCA (Plan-Do-Check-Act) cycle
- Apply root cause analysis techniques
- Implement Kaizen events for continuous improvement

### • 04 DAY FOUR

#### **Lean Leadership and Culture Objectives:**

- Develop Lean leadership skills
- Create a culture of continuous improvement
- Understand change management in Lean transformations

### • 05 DAY FIVE

#### **Advanced Lean Concepts and Implementation Objectives:**

- Apply Six Sigma principles in Lean environments
- Implement Total Productive Maintenance (TPM)
- Develop a Lean implementation plan for your organization

# Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 20, 2025	April 24, 2025	5 days	2150.00 \$	Virtual - Online
May 26, 2025	May 30, 2025	5 days	4250.00 \$	UAE - Abu Dhabi
Sept. 29, 2025	Oct. 3, 2025	5 days	4950.00 \$	Switzerland - Zurich
Dec. 21, 2025	Dec. 25, 2025	5 days	4250.00 \$	KSA - Riyadh