



LEAN MANAGEMENT

PROFESSIONAL CERTIFICATION



LMPC™ Version 082024

Lean Management

Syllabus V082024

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Introduction

In recent years, the Lean philosophy has established itself as a fundamental pillar in organizational management. Its adoption allows companies to be more competitive, efficient, and stand out in the market. The knowledge and implementation of Lean Management drive organizational growth and development by reducing waste and costs while increasing customer satisfaction and value.

The role of management is crucial in a BANI environment and in a highly competitive market. Organizations require skilled leaders with the knowledge and tools necessary to adapt to changes in customer needs, the marketplace, and organizational management.

This certification aims to develop the key competencies of a change catalyst leader, training them in the Lean philosophy to strengthen their role and lead the transformation of their organization.

Learning objectives

- To know strategies for the implementation of continuous improvement in an organization.
- Learn how to build a team to drive continuous improvement.
- Learn how to use Lean tools and practices through practical exercises.
- Learn new ways to improve productivity, reduce costs, improve quality and workflow within an organization.
- Provide key tools for implementing Lean from an organization's first layers of management.
- Developing Lean Competencies for Managers.

Exam Format and Duration

- Format: Multiple Choice
- Questions: 40
- Passing Score: 32/40 or 80%
- Language: English
- Duration: 60 minutes

- Open book: No
- Delivery: This exam is available online
- Supervised: At the Partner's discretion

Target Audience

- Project Managers, Agile Coaches, Scrum Masters, Managers, Consultants, and leaders of Centers of Excellence (COEs) from different companies.
- Executives and business leaders seeking to align their organizations with Lean Management principles.
- Individuals working in organizations interested in adopting the Lean philosophy.
- This certification is designed for all individuals who wish to drive significant improvements in their organizations, such as increased productivity, improved quality, increased competitiveness, reduced costs, and increased customer loyalty.

Duration

16 - 20 hours

2 days

Content

Module 1: Lean and Lean Manufacturing

This section establishes the conceptual framework for understanding the strategic importance of Lean in optimizing operational efficiency and value generation. We will examine how each element of Lean contributes to building a robust infrastructure for operational excellence and address the identification and elimination of waste, which is critical to improving organizational efficiency.

- What is Lean?
- The Origin of Lean
- Lean Principles
- Mura
- Muda: the 8 wastes

- Muri
- Jidoka: Andon, Poka Yoke, 5 whys
- Kaizen
- Lean Management
- Lean Six Sigma
- Lean Software
- Lean StartUp
- Lean Benefits
- Kanban
- Theory of constraints
- Lean Vs Agile

Module 2: Fundamentals of Lean Management

In this module, we will explore Lean Management as an efficient business model, its benefits for waste reduction and quality improvement, the challenges modern companies face, what does NOT constitute Lean Management, outstanding success stories, and the fundamental principles for implementing Lean in any organization.

- Lean Management as a business model
- Benefits of Lean Management
- Challenges of modern companies
- What is NOT Lean Management?
- Success stories
- Basic principles of Lean Management

Module 3: Lean Metrics

Metrics in Lean Management are crucial for assessing performance and guiding continuous improvement. This module explores selecting and applying effective metrics to optimize processes and make strategic decisions based on data.

- Lead Time
- Cycle Time

- Performance
- Work in Progress
- WIP Limit
- Cumulative flow diagram
- Other useful metrics

Module 4: Lean Thinking

Lean Thinking is a methodology that seeks to maximize customer value by minimizing waste. This module explores its fundamental principles and how to apply them to improve organizational efficiency and competitiveness.

- What is lean Thinking?
- Levers of Lean Thinking
- The 5 S's
- Go to Gemba
- A3 Thinking
- Lean Thinking Tool: The A3 Report

Module 5: The Role of the Lean Manager

In the Lean Manager role, we will explore how to lead the implementation of Lean principles, manage continuous improvement, and foster a culture of waste elimination. We will also analyze how to build efficient and committed teams, which are key to achieving effective Lean operations.

- Understanding the role of the Lean Manager
- Lean Manager Responsibilities
- The 6 Lean Skills of Successful Lean Managers
- 5 steps to evolve as a Lean Manager
- Key tools and practices for a Lean Manager
- What is a Lean team?
- Pillars of a Lean team
- Five key characteristics of a Lean team

- How to develop a Lean team?
- Benefits of developing a Lean team

Module 6: Lean Tools

In this module, we will explore key Lean Management tools such as quality circles, the Lean Value Tree, 5S for workspace organization, Value Stream Mapping, associated metrics, and the steps needed to create an effective VSM.

- Quality circles
- Lean Value Tree
- 5S
- Value Stream Mapping
- VSM Metrics
- Steps to create a VSM