



Principles of Lean for Construction

Course Description

This 1-day workshop provides participants with an overview of the fundamental principles and techniques of Lean techniques in Construction. Participants learn how to rapidly and dramatically improve business processes throughout the entire organization using the concepts of Lean originally developed by Toyota.

This methodology, used world-wide provides a reliable approach for achieving world class performance improvement through employee involvement. Organizations that have successfully implemented Lean have seen cost savings for controllable costs on the order of 40%, and project delivery reliability rates increase by 75-85%.

Approach

Held in a workshop format, this course is designed to teach participants how to effectively use many of the tools of Lean (as shown here in SatiStar's House of Lean). Graduates will understand the variety of Lean methodologies and tools that are used, and will be able to effectively lead and participate in Lean improvement projects.



Participants will learn how to focus on and use many of the proven Lean tools to contribute to the success of the organization.

While the principles are the same, Lean for Construction is quite different from Lean for Production. This workshop provides an overview on the practical use of the tools of Lean as applied to the overall Construction industry. The focus of this workshop is to enable participants to understand the application of Lean through all aspects of Construction, including Concept, Design, Procurement, Construction, Commissioning, Maintenance, and End-of-Life Decommissioning.

Participants will learn through lecture, class discussions, class exercises, case studies based on real-life applications, and team breakouts.

SatiStar's experts can also follow-up this training with on-site consultants to ensure that the use of the tools is applied effectively.

What You Will Learn:

- Introduction:
 - Lean overview
 - What is Lean?
 - How does Lean relate to Six Sigma and other improvement methodologies?
 - The House of Lean
 - Key Lean Principles
 - The seven types of waste
- Basic Lean Tools:
 - Value stream mapping and analysis
 - Process and workflow mapping and analysis
 - Project scheduling and flow
 - Capacity analysis
 - Value analysis
 - Voice of the customer
 - Value-adding processes
 - Business value-adding processes

AT A GLANCE
Course Length: 1 Day
CEUs: 0.8 Units
Who Should Attend: This course is primarily targeted at construction organization staff at all levels charged with leading and implementing improvements to their processes.
Course Options: This course can be taught as a public or an in-house course. As an in-house course, students can use your real-life problems as the basis for study.
Course Fees: CAD995 per participant (Public sessions) We offer discounted pricing for in-house sessions. Please call us to discuss.

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- Non value-adding processes
- Process characterization
- Process capability
- Process benchmarking
- Creating, implementing and sustaining innovative solutions
- Lean Project Risk Management
- Mistake proofing
- Key performance indicators for Lean Construction projects
- Implementation Strategies:
 - Leadership roles and responsibilities
 - Lean project guidelines & selection
 - Kaizen-Blitz
 - Project teams & teamwork
 - Team-based skills and techniques
 - Project planning
 - Developing implementation plans
 - Obstacles, barriers, and countermeasures

Training Outcomes

Graduates will be able to use the structured methodologies and skills taught in this course to be able to begin the transformation to Lean Construction. They will understand and be able to use the tools and techniques that will enable them to simplify, standardize, align, synchronize and achieve rapid and sustainable improvements in all aspects of Construction processes.

This course is primarily targeted at staff at all levels throughout the construction organization who are going to participate on Lean teams working to improve their processes. Graduates will be able to use a variety of structured Lean improvement methodologies to achieve and implement high quality, sustainable improvement solutions.

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