

PER-478 Lean Construction

Duration: 2 days

Trainer: Jean-Marc Legentil

TRAINING DESCRIPTION

For several years, construction companies using the LEAN methodology have increased their productivity. The implementation of the LEAN continuous improvement approach has contributed to this growth. This training will allow you to discover how the Toyota Lean approach applied to construction can improve your productivity and better satisfy your customers. The tools and concepts presented will allow you to start a Lean Construction process and reduce waste.

Participants will understand how to apply the principles of Lean in the construction industry thus allowing to obtain better performance in the continuum of design, planning, supply, manufacturing in factory and on site operations. Participants will be able to start pull planning technique with the subcontractors and professional, the famous LastPlanner tm technique.

LEARNING OBJECTIVES

At the end of this training, the participant will be able to:

- Understand Lean concepts and tools and know how to use them in our organization.
- Experiment Lean tools
- Understand when and how to use them in our work environment: identify, assess and reduce waste.
- Structure an approach to start the implementation of Lean and ensure its success.
- Make the links with BIM (Building Information Model) approaches.

METHODOLOGY

Several learning methods and training tools to measure the progress and integration of the concepts by the participants are used throughout the training.

- Presentation
- Demonstration
- Teamwork
- Simulation

CONTENT

THE 10 TRAINING CONTENT ELEMENTS:

- The particularities of Lean construction

- The global cycle and the relevant tools
- The basic principles of Lean construction
- Lean product design (architecture and engineering)
- The design of site operations
- Site preparation
- Scheduling of works and activities
- Measurement and improvement of site performance
- Standardization of practices

WILL BE COVERED AMONG OTHERS:

- The principles of Lean: waste reduction (Muda, Mura), Takt time, unit flow, objectives, Just-IN-Time, Jidoka, standardization, worker involvement, etc.,
- Lean Construction Simulation
- Principles of scheduling, capacity balancing and synchronization of operations: Kanban, Heijunka box, Scrumban, Last Planner tm
- Industrialization of construction
- 3P workshop, U-shaped cell
- Reduction of set-up time; SMED
- Value Stream Mapping
- Visual management on site
- Five-S + Safety

TARGET AUDIENCE

This training aims to help General contractors, project managers, sub-contractor, architects, professionals, and everyone concerned about productivity and profitability, etc. to integrate Lean concepts into their project.

OTHER INFORMATION

The first day will be devoted to learning Lean construction and Lean principles using a LeanLab tm simulation. 1/3 of the time will be presentations and discussions, 1/3 will be a learning simulation and the last 1/3 will be devoted to exercises between the participants. The second day will be devoted to the VilleGo tm LastPlanner tm simulation to teach and appropriate the application of Lean Construction during site operations: 60% of the time will be devoted to simulation and the rest of the time shared between learning and the set-up discussion.