

# Workshop: Lean Manufacturing Simulation

*Workshop designed by Toyota*

## Target group

Managerial staff and employees of production companies, as well as everyone who is eager to get familiar with the essence of *Lean Manufacturing* in practice. It is especially recommended in order to obtain a powerful motivational effect necessary for implementing the concept.

## Get the practical insight into solving problems and responding to challenges including:

- High production costs.
- Surplus inventory.
- Long duration of the production cycle.
- Unstable processes.
- Lack of motivation for implementing improvements.
- Inability to identify waste in production.
- Lack of practical knowledge of the materials flow control methods.
- Lack of belief in benefits resulting from the implementation of Lean Manufacturing rules.

## Overview

By manufacturing real products during 4 production shifts in a simulated plant, the participants will get the opportunity to see for themselves the benefits of the implementation of subsequent Lean Manufacturing methods.

Lean Manufacturing is a philosophy of production that manages resources economically. It has its roots in the industrial practices of Toyota whose international expansion and spectacular results have led to the lean concept of production becoming immensely popular. Its focus is on employees' development and continuous improvement of production processes. It also helps achieve reduced production time, better quality and lower costs. It is currently a dominant and the most effective philosophy of production management.

### Benefits for the company

- **Increase** in employees' motivation and development of the organizational culture of the company.
- **Reduced** costs of processes and production.
- **More immediate** reaction to customers' needs.
- **Lowered** inventory level.
- **Improved** quality of products.

### Benefits for the participant

- **Thorough understanding** of the concept of Lean Manufacturing.
- Familiarity with **the essence of the culture of continuous improvement**.
- Plant simulation guarantees **full awareness** of how the implemented changes influence the results of the production process.
- Familiarity with the most essential Lean Manufacturing methods and **inspiring confidence** in their effectiveness, as well as generating motivation for implementing the methods in daily work.

## AGENDA – DAY ONE

<b>Module 1</b>	9:00 – 12:45 (10:30 – 10:45 coffee break)	<ul style="list-style-type: none"> <li>Lean Manufacturing genesis</li> <li>Waste vs. adding value</li> <li>Traditional manufacturing system</li> <li>Work at a simulated plant</li> </ul>
12:45 – 13:30 Lunch		
<b>Module 2</b>	13:30 – 17:00 (15:00 – 15:20 coffee break)	<ul style="list-style-type: none"> <li>Analyzing the results obtained at the simulated plant</li> <li>Kaizen</li> <li>Visual management</li> <li>Improving product flow</li> <li>Work at a simulated plant</li> </ul>

## AGENDA – DAY TWO

<b>Module 3</b>	9:00 – 12:45 (10:30 – 10:50 coffee break)	<ul style="list-style-type: none"> <li>Analyzing the results obtained at the simulated plant</li> <li>Quality at the Source, self-control</li> <li>Work standardization</li> <li>Pull system, Kanban</li> <li>Continuous improvement</li> <li>Work at a simulated plant</li> </ul>
12:45 – 13:30 Lunch		
<b>Module 4</b>	13:30 – 17:00 (15:00 – 15:20 coffee break)	<ul style="list-style-type: none"> <li>Analyzing the results obtained at the simulated plant</li> <li>Continuous flow, sequential pull system</li> <li>On-demand production</li> <li>Balancing operations</li> <li>Continuous improvement</li> <li>Work at the simulated plant</li> <li>Analyzing the results obtained at the simulated plant</li> </ul>