

INTRODUCTION TO JAPAN'S LEAN MANUFACTURING SYSTEM – MONODUKURI

~Grasp the basic knowledge of lean manufacturing to increase productivity at your factory~

You have been wondering:

How to find new potential customers to expand business for the company?

- ◆ Have been wondering: Despite working for many years at a Japanese factory, do the field leaders or managers really understand the essence of the production management tools that are being applied at the factory?
- ◆ You often hear about the Lean Manufacturing System or the Toyota Production System, but what does this system actually consist of? Is it being applied at your factory and is it achieving the expected results?
- ◆ How to evaluate if the ongoing improvement activities are effective and fully implemented?

The course will provide production managers or quality managers with a general understanding of the Lean Manufacturing System, to support managers in understanding the essence and effectively applying/improving the methods and tools of Lean Manufacturing at their own factory.

CONTENT

Part 1: Introduction to Lean Manufacturing

- ◆ Origins of Lean Manufacturing
- ◆ Toyota's philosophy
- ◆ Impacts of Lean Manufacturing System on production industry
- ◆ What is Lean Manufacturing?
- ◆ The Lean Manufacturing House

Part 2: Key concepts and principles of Lean Manufacturing

- ◆ Methods to increase productivity
- ◆ What is waste in manufacturing?
- ◆ Activities to reduce wastes
- ◆ 8 wastes in production
- ◆ Philosophy of Lean Manufacturing
- ◆ Principles of Lean Manufacturing

Part 3: Essential methods and tools of Lean Manufacturing

1. Foundational tools and methods

- ◆ 4M
- ◆ 5S
- ◆ Visual Controls
- ◆ Plant Layout
- ◆ Total Productive Maintenance

2. Standardize

- ◆ Standardized work
- ◆ Heijunka: line balance
- ◆ Kaizen: continuous improvement

3. Just-In-Time

Kanban: scheduling system/
Kanban

- ◆ Continuous flow
- ◆ Takt Time
- ◆ One-touch changeover
- ◆ Multi-tasking

4. Jidoka – Autonomation

- ◆ Quality at the source
- ◆ Poka-Yoke: error prevention method
- ◆ Andon: alert system
- ◆ Problem solving

5. Everyone's participation

- ◆ Improvement activities for small groups
- ◆ Kaizen proposal system
- ◆ Policy management

Part 4: Summary and Action Plan



OBJECTIVES



- ➔ Understand the features of Japan's lean manufacturing system – Monodukuri.
- ➔ Grasp foundational methods and tools of Lean Manufacturing, and apply them to improve the production management system of your factory.

TARGET



- ☐ Staff
- ☒ Middle-Management
- ☒ First-line Management
- ☐ Top-Management

METHOD



30% theory, 70% practice through group discussions, presentations, case studies, role-playing, games, etc.



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