

LEAN MANUFACTURING: THE FUNDAMENTALS & ITS APPLICATIONS

Manufacturers and organizations are consistently requires operation environments that are better and leaner in the rough waves of competitiveness. Lean manufacturing is the result of the mandate to eliminate wastes, improving operation flow and strengthen machinery capability. Lean manufacturing is the latest operation techniques that are able to meet the organizations expectation for better control and continual improvement of their process units. This course provides practical effective methods to implement Lean to realize better product or service under the control of efficient operation management.

Key focus

1. Introduce the importance and impact of LEAN to the organization
2. Provide comprehensive understanding of LEAN and its proper applications
3. Share effective tools and techniques which are normally used in LEAN manufacturing for better process control and continual improvement
4. be competent to apply the LEAN techniques
5. be able to lead and drive LEAN initiatives in their section
6. possess adequate knowledge and skill to promote and conduct LEAN concepts and techniques

Who will benefit

Managers, executives, officers and supervisors from manufacturing, operation, quality assurance, quality control, production, maintenance, laboratory and other relevant functions..


Take The Next Step

Day one

Module 1: Introduction to Lean Manufacturing

- ▶ The fundamental and concept of Lean
- ▶ Impacts and benefits of Lean Manufacturing
- ▶ Requirements for implementation of lean in manufacturing

0900-1030

Morning tea break

1030-1045

- ▶ Comparisons of Lean Manufacturing to Six Sigma and Kaizen

1045-1300

Module 2 : Just-In-Time System

- ▶ Introduction to JIT system
- ▶ Benefits and impacts of JIT Production to the organization
- ▶ Visible control techniques
- ▶ The application of JIT in Lean Manufacturing

Lunch

1300-1400

Module 3 : Improvement Techniques to Machineries and Their Operations

- ▶ Introduction to TPM (Total Productive Maintenance)
- ▶ Application and implementation of TPM in Lean Manufacturing
- ▶ How to use OEE (Overall Equipment Effectiveness)

1400-1530

Afternoon tea break

1530-1545

- ▶ Techniques to control and improvise OEE
- ▶ Concept and application of SMED (Single Minute Exchange of Die)

1545-1700

Take The Next Step

Day two

Module 4 : The Various Quality Tools for Lean Manufacturing

- ▶ Application of Deming PDCA cycle
- ▶ Interfaces with the 7 QC Tools
- ▶ Alignment of QCC activities with Lean Manufacturing

Morning tea break

Module 5 : The Elimination of Wastes and Mistakes in Lean Manufacturing

- ▶ Concept and application of Poke Yoke (mistake-proofing)
- ▶ Techniques in elimination of 7 Muda (wastes)
- ▶ Identifying and improving process units with Value Stream Mapping
- ▶ Application of Kanban Systems in operation.

Lunch

Module 6 : The 5S in Lean Manufacturing

- ▶ Fundamentals of 5S + 1S system

Afternoon tea break

- ▶ The benefits of 5S + 1S implementation
- ▶ The elements and application of 5S + 1S

0900-1030

1030-1045

1045-1300

1300-1400

1400-1530

1530-1545

1545-1700

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