A stitch in time saves nine!

LEAN FACTORY DESIGN

Application of Lean thinking to the design of a new factory, warehouse, distribution center, office and more.....

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Application of Lean concepts on a company’s upcoming/future projects, so that **MUDA** (waste) can be PREVENTED, this is Lean applied as a **preventive measure**!

**What is Lean Factory Design (LFD)?**

**Prevention is better than cure!**

Application of Lean concepts on a company’s upcoming/future projects, so that **MUDA** (waste) can be PREVENTED, this is Lean applied as a **preventive measure**!

**Why Lean Factory Design?**

**Proactive or reactive Lean?**

LFD is proactive Lean. Can a factory, assembly workstations, processing centers, facility be designed Lean from bottom up? The answer is **YES**! In LFD we focus on designing waste-free, visual factories & facilities that have smooth Flow and are Lean in its orientation. This applies also to processing centers, assembly workstations, material management & handling infrastructure, etc. Properly done, the need of the floor space can be reduced by 50% & manpower can be rationalized by 30% to 50% apart from eliminating a lot of other **MUDA** (waste) across the value stream thus reducing both, capital cost and cost of operations!
Before Kaizen | After Kaizen
---|---
**Parameter** | **Before Kaizen** | **After Kaizen**
1. Production TPT (Through Put Time) | 95 Days | 52 Days
2. Space Used | 9000 Sq. M | 7500 Sq. M
3. Distance Travelled By Material | 12 Km | 1.8 Km
4. WIP (Inventory) | 8.9 Million | 5.1 Million

Unfortunately, only few companies are aware of these opportunities and how to easily achieve these savings.

Lean & Green!

As part of our Lean Factory Design efforts, we can help organization focus on **Green** aspects by reducing carbon & water footprint across the value stream or where feasible.
LFD Projects Executed

During LFD we will address the following:

- Manufacturing FLOW improvements.
- LEAN/Cellular Layouts
- LEAN process design - even processes of service delivery
- Investment in ‘right-size’, multiple, easily maintained, flexible equipment (including utilities)
- Quick changing, flexible equipment (also workstations and layouts)
- Ergonomic workstations
- Multi-skilled, Multi-tasking manpower
- Customized, count-free containers for parts
- Line-side - design for material inputs using FIFO racks
- POUS (Point-of-Use Stores)
- Design of Supermarkets for storage, where necessary (and pull replenishment) of raw materials and parts.
- Kaizen warehouse [FG and spares sales] for optimization of flow
- Lean internal logistics systems (supporting JIT operations internally)
- Lean supervision
- Lean documentation (perhaps supported by bar-coding)
- Visual managements of ‘Gembutsu’ and information / data

* Each project is unique

About Us

Masaaki Imai
Founder Kaizen Institute

Kaizen Institute is a global pioneer and knowledge based organization which provides consulting, coaching and training services to companies represented in Europe, Asia-Pacific, Middle-East, Africa and America. Kaizen Institute Africa (KIA) is the Africa business unit offering its services to companies in the public, service, and manufacturing sectors, focusing on organizational change, lean manufacturing, and continual improvement implementation. Interestingly KIA strongly believes in practicing what it preaches. We strive hard to apply Kaizen in our own day to day business.

Kaizen is a journey and not a destination and it requires a very high degree of top management commitment.