

7 IE TOOLS

~To improve the production market~

Have Kaizen activities been carried out smoothly at your company's production site?

- ◆ Your factory leaders and staff have basic understanding of Kaizen, but don't know where and how to start your Kaizen activities?
- ◆ The result of waste elimination activities does not meet your company's expectation?
- ◆ You have little opportunities to take part in courses focusing on useful and effective tools for Kaizen?

CONTENT

Part 1: Basic principles of Kaizen (Improvement) and IE

- ◆ The definition of IE (Industrial Engineering)
- ◆ The 7 wastes in manufacturing activities
- ◆ ECRS Principle

Part 2: Productivity improvement with 7 IE tools

- ◆ **1. Process analysis**
~ Analyze whole production process from raw materials to final product, in order to eliminate wastes and carry out Kaizen activities~
- ◆ **2. Motion analysis**
~ Analyze motions to eliminate wasted movements and to re-arrange the movements' order and co-ordination with less labor-consuming and higher economic effectiveness ~
- ◆ **3. Time Study**
~ Analyze movements from work time perspective to eliminate wastes and improve productivity ~
- ◆ **4. Operation analysis**
~ Analyze the movements of man and machines to calculate the time-consuming ratio of each activities to the entire process ~
- ◆ **5. Combination work analysis**
~ Analyze the time-consuming relationships between combined movements (between Man and Machines or among Men) to re-arrange the process with higher productivity ~
- ◆ **6. Line balancing analysis**
~ Design a harmonious production flow which could remove the differences of necessary time-consuming between each stages ~
- ◆ **7. Material handling**
~ Analyze the product transfer flow process to reduce time-consuming and wastes ~

Part 3: 7 IE tools applications and action plan for Kaizen activities

- ◆ IE tools applications to PDCA cycle (Plan – Do – Check – Act)
- ◆ 7 steps to conduct improvement activities

Part 4: Summary and Action Plan

※The above content is subject to change without prior notices



OBJECTIVES



- ➔ Have a basic knowledge of 7 Industrial Engineering (IE) tools and their applications.
- ➔ Be able to apply 7 IE tools to production site.
- ➔ Be able to conduct Kaizen activities by using 7 IE tools.

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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