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?

7 IE Tools

Target: Middle and junior factory managers (Chief, Foreman, Supervisor etc.) in the production management department or in charge of Kaizen activities.

Training venue: At client's company as required (3 days)

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.

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 ratioof each activities to the entire process ~

Combination work analysis (5)

~ Analyze the time-consuming relationships between combined movements (between Man and Machines or among Men) to re-arrange the process with higher productivity ~

Line balancing analysis 6

~ Design a harmonious production flow which could remove the differences of necessary timeconsuming 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: Action plan

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