

Waste Elimination for Manufacturing to Increase Profit

Course Description

It is an undeniable fact that all organizations (Manufacturing or non-manufacturing) carry some kinds of wastes. These wastes are obstacles or stumbling blocks that added non-value activities in the operations and thereby increase our operation cost.

In production environment, wastes are more easily identified as it is more visible with appropriate production control and observation. In this session, we will help participants to identify major wastes and develop effective solutions to eradicate root causes. With the improvement obtained, we can boost our competitive edge in terms of production cost and productivity gain. This will ultimately increase our business profits and put us in better position in business competition.

Course Objectives

This training session intends to expose all participants to the following concepts and applied them at appropriate situations:

- Understand and identify wastes in your organization
- Classification of waste categories in your company to facilitate root cause finding
- Computation of financial losses due to waste in our organization
- Implement Kaizen or improvement projects to eliminate the wastes
- Develop better manufacturing and management organization with minimum wastes
- Enhance all value added activities in your organization
- Develop roadmap for total customer satisfaction

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Course Content

MODULE 1: BUSINESS MODELS FOR ANY ORGANIZATION (manufacturing and non-manufacturing)

- Business outlook
- Top Line
- Bottom Line
- Product Costing components (Materials, Cost of Manufacturing Activities etc)
- Issues faced by today's company
- Exercise: Develop some of difficulties that your organization faced today

MODULE 2: VALUE ADDED VS. NON VALUE ADDED ACTIVITIES

- Production process flow charts
- List of activities in the sub processes
- Definition of followings
- Value added activities
- Non value added activities
- Mapping your processes into value added and non-value added activities
- Exercise : Draw your process flow charts and develop list of non-value activities

MODULE 3: DEFINITION OF MANUFACTURING OR PRODUCTION WASTES LEADING TO LEAN MANUFACTURING

- 8 major wastes in production, Cycle Time and Lean Manufacturing definition
- Classification of wastes into administrative and technical nature
- Method to prioritize the wastes (Dollars vs Magnitude)
- Impact to cycle time and production measurement indices (PQCDSM) upon Waste Reduction/Elimination
- Group workshop: Develop a list of Wastes in your work environment and classify into administrative and technical nature

MODULE 4: IDENTIFY IMPROVEMENT PROJECT (Workshop)

- Definition of Wastes (Technical or Non-Technical), 4M contribution
- Prioritize Wastes
- Define the Waste to be eliminated or reduced, magnitude and when to achieve the objectives
- Predict the achievement from Cycle time and productivity gain after the waste elimination
- Analyze the waste using root cause analysis tools:
- Why-Why Analysis
- Engineering knowledge and experiences
- Phenomena Mechanism (PM) Analysis
- Group Exercise: Using above analytically tools to identify root causes for your line problems

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MODULE 5: DEVELOP IMPROVEMENT ACTIONS AND ACTIVITIES (Exercises)

- Application of Engineering and Technical Knowledge in deriving solutions
- Examples of technical “Kaizen”
- Implementing Kaizen in the right way
- Proliferating Kaizen to all equipment/machines and perform relevant tracking
- Exercise: Develop Simple Kaizen for Real Life Examples
- Cost Saving Computation. – Cost of Avoidance & Actual Savings

Course Duration

One Day Highly Interactive Course

Methodology

This session will be conducted in workshop manner. Participants are encouraged to bring in real examples during the class for demonstration of tools and techniques developed to overcome the waste.

Case studies and examples are used to illustrate activities and achievement of waste elimination project

Apart from the workshop, the course also will have lectures and group study. Appropriate video on “Waste Elimination” example will be shown during the training.

Target Audience

All Production Personnel, Executives, Engineers and Managers should attend this session as this will provide a very detailed and down to earth approach of waste elimination which in turn will lead to Lean Manufacturing organization. The course also will help the participants to develop a strategy to improve Productivity, Quality and Profitability for our organization.

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