

Poka-Yoke to Achieve Zero Defect Manufacturing

Course Description

This course intends to explore the most effective method in ensuring quality. As defects are always created from manufacturing or operation errors, preventing errors is the best mean and approach to eliminate defect. In fact, Poka Yoke is one of the most effective and efficient method to achieve “Zero Defect” manufacturing and quality. We will conduct this workshop with examples from the production lines and real life application.

Course Objectives

- Know what Poka-Yoke is
- Apply Poka-Yoke concepts where applicable
- Apply source inspection techniques in manufacturing processes
- Differentiate the various quality control systems such as SPC, inspection, and Poka-Yoke
- Understand and expose to different function of Poka-Yoke such as orientation etc.

Course Content

MODULE 1: Challenges for Today’s Company

- Competition for survival
- Quality, Productivity and Profits
- Quality Control methods
- Inspection
- Process Control
- Quality Systems

MODULE 2: Introduction to Poka-Yoke

- Definition of Poka-Yoke
- Effect and characteristics of Poka-Yoke
- Types of manufacturing errors
- Example

MODULE 3: Zero Quality Control System

- Components of a zero quality control system
- Poka-Yoke techniques application

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MODULE 4: Improvement Process

- Fundamentals of improvement process
- Application of statistics in improvement process
- Stratification and classification of defects
- Deriving improvement action items

MODULE 5: Types of Validation

- Self-validation
- Successive validation
- Source validation

MODULE 6: Poka-Yoke Functions and Techniques

- The orientation method
- The fixed value method
- The contact method
- Locking Mechanism
- Sensory method
- The motion step method

MODULE 7: Setting up a Poka-Yoke Method

- Choosing a validation method
- Setting up the validation method
- Incorporating the Poka-Yoke techniques in the production process

MODULE 8: Effect of Poka-Yoke Techniques

- Reduce inventory
- Relationship of Product defects and equipment failures (Causes and effects)

MODULE 9: Case Study

- IC Marking Process
- Shearing Operation
- Frame forming operation

Course Duration

Two Day

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Methodology

This session will be conducted in workshop manner. Real examples from the industries and also the participant lines will be use as case study and applied as working examples. Apart from the workshop, the course also will have some lectures and a lot of group study.

Target Audience

All Technical Executives, Engineers and Managers from Process, Quality, Planning and Production who are interested to know or need to apply Maintenance & Improvement Techniques.

Other Details:

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