



Poka-Yoke (Mistake Proofing)

? What is It

Poka-Yoke idea of **preventing errors and defects** from appearing in the first place. Is literally – **avoiding (yokeru) inadvertent errors (poka)**. The most powerful **work standardization technique**.

🕒 When

- Need to reduce **defect, delay and deviations (3D's)**.
- To support **continuous improvement**.
- Used in the **Improvement phase of the DMAIC**.

🎯 Goals

- Prevent **human error** occurrence.
- **Ensure** right conditions, exist before executing a process step.
- **Eliminate 100%** any possible defect.

📊 How

PREVENT

MINIMIZE



ELIMINATION

PREVENTION

REPLACEMENT

FACILITATION

DETECTION

MITIGATION

Seeks to eliminate the **possibility of error** by redesigning the product or process.

Engineers the product or process so that it is **impossible to make a mistake** at all.

Substitutes a more reliable process to improve consistency.

Employs techniques and combining steps to make the activities **easier to perform**.

Involves identifying an error **before further processing occurs** to correct quickly the problem.

Seeks to **minimize the errors/ mistakes to turn into defects**.

1

Identify the Operation

2

Analyze: 5 Whys and FMEA

3

Choose the Poka-Yoke Approach

4

Apply Comprehensive Approach

5

Determine: Contact, Constant, Sequencing

6

Test the Method

7

Train the operators

💡 Hints

- Always have a **Process Map**.
- Conduct **FMEA** to discover potential failures.
- It shouldn't be **costly**.
- It should help people to make their job **right the first time**.

🔗 Example

