



KVALIKON

VEZETÉSI TANÁCSADÓ ÉS
RENDSZERFEJLESZTŐ KFT.



1125 BUDAPEST, ISTENHEGYI ÚT 63/B.

LEAN MAINTENANCE TRAINING

5 DAYS TRAINING

Goal of the training:

To acquaint the methods and the practices of the lean management about the effectiveness development of the machinery and production equipment (5S, TPM, SMED).

Recommended for:

Lean leaders, Kaizen managers, Production managers, Technical managers, Maintainers

1. day

Lean Management System

Lean Management Philosophy

- The history of the Lean Management and the TPS
- Lean production, Lean Office
- Value-added approach
- Lean principle (5 principles)

Lean Management Construction elements

- Pull system, JIT
- JIDOKA, 0 defect concept
- KAIZEN
- Involving employees
- Stable Operation

KAIZEN philosophy and approach

- Connection of KAIZEN and Lean
- Features of KAIZEN
- Four principles of KAIZEN
- Examples of the KAIZEN implementation

Simulation game - Lean production versus traditional production

2. day

5S – Lean Management basics

Gemba Kaizen

- 5 GEN, Gemba Kaizen approach

PDCA – SDCA cycle

- Maintenance and continuous improvement
- Based on facts leadership
- Measurement, data collection
- Determine targets and requirements

Standards

- Function of standards
- Steps of standardization
- Elements of standardized work

5S method

- 5S steps, introduction
- The implementation of 5S method
- Viewpoints of the implementation of 5S
- Scheduling the implementation of 5S
- Possibilities of maintenance, 5S audit

Visual management

- Information structures, control



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- Examples of visual management

Catapult game – PDCA

3. day

KAIZEN – Problem solving

- Problem solving in 7 steps, Kaizen steps

Problem exploration's tools

- Defining problem (Tregoe)
- Identify KAIZEN possibilities
 - o PQCDMS check list
 - o 4M method
 - o 5W 1H method
 - o 3 MU method
- 5 WHY method

Task: KAIZEN practice

Further analysis tools

- Flow charts, Value Stream Mapping
- Performance measurement, Benchmarking
- 5W 1H method
- Spaghetti chart, cycle time chart
- Standard work combination sheet

7 MUDA – loss exploration

4. day

Problem solving

- Problem solving tools

7QC tool

- before KAIZEN, after KAIZEN

- Kaizen diary, action plan

Collective problem solving

- Brain storming, Affinity diagram
- Check list in 7 steps

Loss reduction

- Cycle time balancing
- Standing time reduction
- Material flow optimization

0 defect concept

- FMEA, good quality first
- JIDOKA, POKA-YOKE

Kaizen Story Board

- Presentation of the KAIZEN results

5. day

TPM system

- TPM concept and structure
- 8 principles (columns) of TPM
- TPM system
- Basics of Reliability theory

Loss reduction related machines

- 6 large losses related machines
- Measurement of losses related machines (OEE)
- Ranking problems based on indicators

Increase machine occupancy

- Reducing failures



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» LEAN MAINTENANCE TRAINING

5 DAYS TRAINING

- Maintenance approaches

Maintenance management

- Self-motivated maintenance management
- Planned maintenance system including preventive maintenance
- Preventive maintenance program
- TPM activity display

SMED

- Change over process
- SMED preparation
- Identifying external-internal times
- Reduce change over time

Exam

- presentation of the individual KAIZEN action
- written exam