

IN-DEPTH LEAN MANUFACTURING TRAINING

Amatrol's Lean Manufacturing training program features 13 courses that present a wide variety of lean manufacturing concepts with a clear, concise methodology. Each course's in-depth eLearning curriculum features an engaging multimedia format that includes stunning 3D graphics and videos, voiceovers of all text, and quizzes and exercises designed to appeal to all learning styles. The curriculum also features interactive elements that keep learners focused on important concepts in order to improve understanding.

eLearning Courses	Topics Include:
Lean Overview and Workplace Organization (MXLM100)	Lean Manufacturing History, Similarities & Differences of Traditional and Lean Manufacturing Methods, Benefits of Workplace Organization, Visual Management Tools, Steps of the 5S Program
Introduction to Lean Manufacturing (MXLM101)	Lean Manufacturing Definition, Value-Added Activities, Eight Deadly Wastes, Methods of Standardization, Methods of JIT Production & Jidoka, Lean Culture, Continuous Improvement
5S (MXLM102)	How To Perform the Steps of the 5S Program: Sort, Straighten, Shine, Standardize, & Sustain
Total Productive Maintenance (MXLM103)	Importance of Total Productive Maintenance, Principles of Predictive Maintenance, Autonomous Maintenance, Overall Equipment Effectiveness, Eliminating Breakdown Losses, Eliminating Contamination
Poka-Yoke (MXLM104)	Zero Quality Control Elements, Defect Levels, Poka-Yoke System Elements & Methods, Sensing Devices, Red Flag Conditions, Poka-Yoke Contact, Fixed-Value, & Motion-Step Method Devices
Lean Theory (MXLM203)	Just-In-Time Production, Customer Lead Time, Process Cycle Time, Throughput, Takt Time, Production Capacity, Operation of a Kanban System, Manufacturing Resource Planning
Lean Process Flow (MXLM204)	Benefits of Just-In-Time Production, Little's Law, Push and Pull Production Systems, Kanban Systems, Transport & Production Kanban Cards, Inventory & Storage, Scheduling, Heijunka
Visual Workplace (MXLM205)	Importance of Visual Communication, Visual Workplace Elements, Visual Documentation, Visual Production Control & Quality Systems, Visual Production Indicators, Sustaining a Visual Workplace
Standardized Work (MXLM206)	Six Levels of Standardization, Types of Standards, Production Capacity & Job Element Sheets, Standardized Work Combination Tables & Charts, Creating & Communicating Standards
Kaizen (MXLM307)	Role & Benefits of Kaizen, Phases of a Kaizen Event or Workshop, Kaizen Event Planning & Implementation, Data Collection Methods, Time and Motion Studies, A3 Reports, Event Examples
Value Stream Mapping (MXLM308)	Customer Value, Value-Added Processes, Value Stream Maps, Product Family Matrix, Product Quality Analysis, SIPOC Diagrams, Swim Lane Flow Charts, Future State Value Streams
Set-Up Reduction (MXLM409)	Importance of Set-Up Reduction, Benefits of Single-Minute Exchange of Dies (SMED), Analyzing Set-Up Procedures, Separating & Converting Internal & External Tasks, Streamlining Changeover
Six Sigma (MXLM510)	History & Benefits of Six Sigma, Steps of DMAIC, Project Management & Customer Determination, Team Development & Management, Measurement & Analysis, Improvement & Control



AMATROL®

LEAN MANUFACTURING

PROCESS — EFFICIENCY — QUALITY

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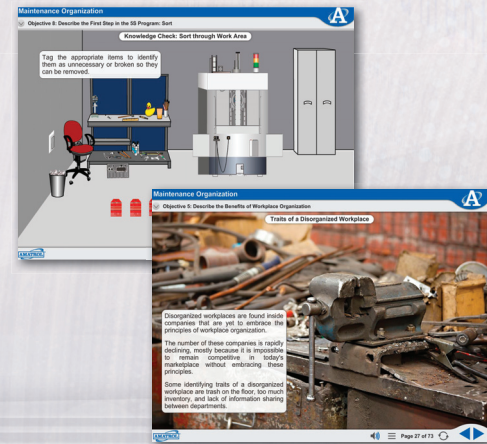


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PROVEN LEAN MANUFACTURING TRAINING IMPROVES QUALITY & EFFICIENCY

Lean Manufacturing Theory & Principles

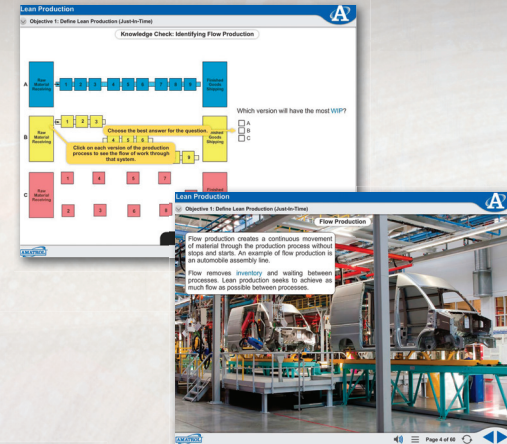
- Introduction to lean manufacturing principles, such as workplace organization & 5S
- Creating a lean culture by adopting processes designed to eliminate waste & focus on value-added activities
- In-depth overview of lean manufacturing theory & related concepts: Just-In-Time, Jidoka, Kaizen, Heijunka



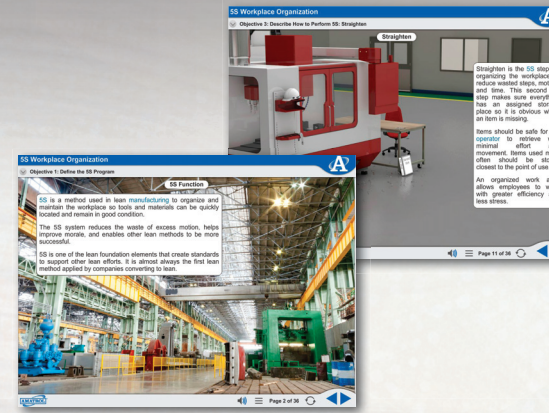
Lean Overview & Workplace Organization (MXLM100)



Introduction to Lean Manufacturing (MXLM102)



Lean Theory (MXLM203)



5S (MXLM102)



Visual Workplace (MXLM205)

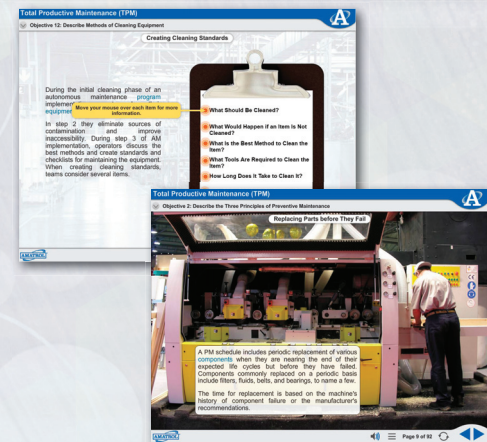


Standardized Work (MXLM206)



Process Analysis & Quality Control

- Comprehensive instruction on Total Productive Maintenance philosophy, including predictive maintenance
- Detailed examination of Poka-Yoke quality control philosophy, systems & devices, including Zero Quality Control
- Implementation of lean process flow, including Little's Law, Just-In-Time production & Kanban systems



Total Productive Maintenance (MXLM103)



Poka-Yoke (MXLM104)



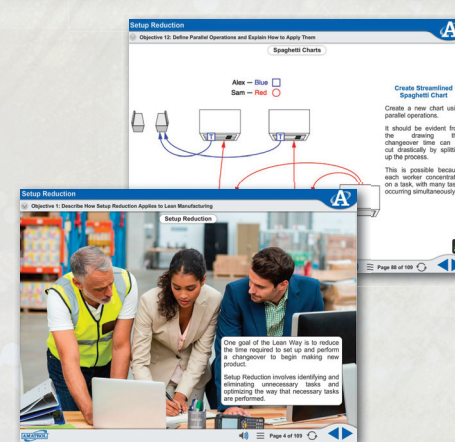
Lean Process Flow (MXLM204)



Kaizen (MXLM307)



Value Stream Mapping (MXLM308)



Set-Up Reduction (MXLM409)



Six Sigma (MXLM510)

Workplace Organization

- Comprehensive overview of workplace organization & the steps of 5S: sort, straighten, shine, standardize & sustain
- In-depth instruction on how to use visual communication to improve the work environment
- Detailed examination of standardized work and its role in lean manufacturing

Advanced Lean Methodologies

- Thorough exploration of the Kaizen continuous improvement philosophy
- Implementation of value stream mapping & value-added process analysis
- Streamlining changeover through efficient set-up reduction processes
- Extensive analysis of the Six Sigma management philosophy & its components

Multimedia Courses Feature 3D Graphics, Videos, Voiceovers, & Interactive Exercises Designed to Appeal to All Learning Styles