

Exploring Lean Manufacturing Basics

written by Lauri Moon | August 11, 2025



Exploring Lean Manufacturing Basics

(3-Hr, in-person, Altoona, PA)



IMC's Exploring Lean Manufacturing Basics, 3-hour introductory program, provides participants with a foundational understanding of Lean Manufacturing. Participants will explore the basic concepts behind Lean thinking and how it supports efficiency, teamwork, and continuous improvement in a manufacturing environment. The program is designed to help employees become familiar with the key principles, terminology, and workplace practices that are part of a Lean culture. No prior Lean experience is needed, just curiosity and a willingness to learn how your role fits into the bigger picture of improving processes and reducing waste.

Register now for only \$189!

[Register](#)

Learning Objectives:

- Recognize the basic principles of Lean Manufacturing and describe how they support an **efficient and productive workplace**.
- Discover the importance of **minimizing waste** and being mindful of how everyday actions impact workflow and efficiency.
- **Understand common Lean concepts and terminology** used in manufacturing environments.

Course Outline:

- Introduction to Lean Manufacturing
 - Definition, origin and impact
 - Continuous Improvement: Kaizen and Kata
- Principles of Lean Manufacturing
 - Understanding value from the customer's perspective
 - Systems and process thinking
 - Improving Flow
 - Eliminating Waste
- Lean Tools and Techniques
 - Lean Production
 - Improving Workflow
 - Mapping Processes
 - Reducing Waste
 - The 8 Wastes of Lean
 - Organization of Work and Workstations
 - Identifying and Solving Problems
 - Root Cause Analysis
 - Plan-Do-Check-Act Cycle
 - 5 Whys
- Definitions of Common Lean Terms
- Q&A and Wrap-up

Exploring Lean Manufacturing Basics Outline

Why Attend?

- **Build confidence** on the shop floor by understanding Lean Manufacturing principles and how they impact your daily work.
- Become a Lean/CI **Rock Star** when you learn tools and techniques that help you communicate better with continuous improvement leaders.
- Using newly learned terminology, you'll become a **highly valued communicator** who is **more visible** and **respected** by both leaders and peers.
- Become a **self-assured champion** for team discussion when you use real-world examples, not textbook lingo when communicating with your peers.

Who Should Attend:

Ideal for anyone in manufacturing looking to boost efficiency and reduce waste. **Perfect for:** production operators, team leads, quality staff, maintenance, engineers, materials/inventory personnel, administrative support, and new hires. No Lean experience required—just a desire to improve processes.

Register now for only \$189!

[Register](#)

Meet Your Presenter:



Instruction provided by IMC Business Advisor Tim Davis. Tim has over 35 years of management and operational experience in manufacturing businesses in Central and

Southwestern PA. Various career roles include Operations Manager, Safety Manager, HR Manager, Sales Manager, Sales Rep, Service Manager, executive/business coach and trainer. His areas of expertise include employee development, strategic planning, people skills, effective communication, leadership, safety, time management, sales and customer service.



This training qualifies for WEDnetPA funding **for qualified participants.** **Not familiar with WEDnetPA funding, contact IMC at info@imcpa.com.**

Introduction to Lean Manufacturing with Simulation

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Introduction to Lean Manufacturing with Simulation

(6-hour, in-person, Altoona, PA)

This program starts in:



In today's fast-paced, competitive environment, **improving efficiency and eliminating waste** is crucial for long-term success. This 6-hour Lean Manufacturing course is designed to equip participants with a fundamental understanding of Lean principles that **drive real, measurable improvement** in company operations. Participants will dive into essential Lean tools and methods, such as Value Stream Mapping, Workflow Analysis, Pull Production, 5S Workplace Organization, Visual Management, and more. You'll explore how each technique **solves specific problems and contributes to smoother workflows, reduced waste, and improved bottom lines**. With hands-on exercises in a simulated environment, attendees will not only learn the theory behind these tools but also apply them in practice. By the end of the course, participants will understand how to assess improvement opportunities, choose the right techniques for your organization, and **implement strategies that ensure success**.

[Register](#)

Register now for only \$389 per person!

Learning Objectives:

- Understand and apply the 5 core principles of Lean thinking to drive continuous improvement.
- Differentiate between value-added activities, non-value-added activities.
- Recognize the eight types of waste and develop strategies to reduce them for optimal efficiency.
- Use value stream mapping to identify bottlenecks and improve flow across processes.
- Gain insights into key Lean methods and learn how each technique addresses specific operational challenges.
- Apply Lean tools in a hands-on, simulated environment to experience real-world impact.



Course Outline:

- Introduction to Lean Manufacturing
 - Understand the fundamentals of Lean principles and their impact on operational efficiency.
- Simulation - Round 1
 - Apply traditional manufacturing practices in a simulated environment to observe current processes.
- Round 1 Debrief
 - Analyze results from Round 1 and discuss key learnings and

opportunities for improvement.

- Overview of Traditional Manufacturing
 - Examine traditional manufacturing practices and understand how Lean differs and improves upon them.
- Introduction to Process Improvement & Systems Thinking
 - Explore the importance of viewing processes holistically and understanding interdependencies for continuous improvement.
- Key Lean Tools: Value Streams, Standard Work, Flow, and Visual Management
 - Learn to identify value streams, implement standard work, and apply visual management techniques for better organization and flow.
- Simulation - Round 2
 - Apply new Lean concepts in the simulation to create measurable improvements.
- Round 2 Debrief
 - Review the results of Round 2 and identify areas for further refinement.
- Advanced Lean Techniques: Pull Scheduling, Batch Size Reduction, Setup Reduction, TPM, and Cellular Flow
 - Delve into more advanced Lean methods designed to optimize production scheduling, reduce waste, and improve machine efficiency.
- Simulation - Round 3
 - Implement the advanced techniques in the final simulation to test improvements and optimize flow.
- Round 3 Debrief
 - Reflect on the outcomes of Round 3 and discuss final adjustments for continuous improvement.
- Strategies for Successful Lean Implementation
 - Learn how to effectively implement Lean practices in your organization to ensure long-term success.
- Course Conclusion
 - Recap key takeaways and next steps for applying Lean manufacturing techniques in the real world.

[Register](#)

Register now for only \$389 per person!

Who Should Attend:

Operators, Technicians, Engineers, Supervisors, and Managers

Why Attend:

Elevate your manufacturing operations by attending our “Introduction to Lean Manufacturing with Simulation” workshop. Here’s why this opportunity is essential for your business:

- **Master Lean Principles:** Gain a comprehensive understanding of Lean methodologies to drive continuous improvement and operational excellence.
- **Identify and Eliminate Waste:** Learn to pinpoint inefficiencies within your processes and implement strategies to reduce waste, leading to cost savings and enhanced productivity.
- **Enhance Workflow Efficiency:** Discover how to streamline workflows, minimize bottlenecks, and improve process flow to boost overall efficiency.
- **Hands-On Experience:** Engage in practical simulations that allow you to apply Lean tools and techniques in a controlled environment, ensuring you’re ready to implement them in your operations.
- **Boost Customer Satisfaction:** Implement Lean strategies to improve product quality and delivery times, resulting in higher customer satisfaction and loyalty.

Don’t miss this chance to transform your manufacturing processes and achieve sustainable success. Join us and take the first step toward a leaner, more efficient future.

Want more? Click to learn more about our Lean Manufacturing Practitioner Certification program starting May 12th!

Instructor:



Max Krug, Owner and Change Management Champion at Future State Engineering, has 30 years of experience in operations, and his range of expertise and experience includes manufacturing operations, distribution, and project management environments. His expertise is assisting organizations achieve Operational Excellence by utilizing Theory of Constraints, Lean Management, and Six Sigma methods. He works with companies to develop corporate strategy and provides hands-on implementation support of the tactics required to achieve Operational Excellence utilizing these techniques. Max holds several certifications in Theory of Constraints, Lean, and Six Sigma in addition to a B.S. in Industrial Engineering from Alfred University and an MBA from St. Bonaventure University.



This program is WEDnetPA eligible.