

# Quick Response Manufacturing (QRM)

written by Lauri Moon | December 19, 2018

**EVENT IS FULL - NO LONGER TAKING REGISTRATIONS**

## **A Competitive Strategy for Low-Volume and Custom-Engineered Products**

Quick Response Manufacturing (QRM) is a companywide strategy for lead time reduction throughout the enterprise. Using QRM, companies have reduced their lead times by 80-90%. As a result, these companies have not only seen large increases in market share, but also experienced 15-20% cost reduction and huge quality improvement. Although Lean Manufacturing techniques can be powerful in certain situations, for companies making low-volume or custom-engineered products, Lean techniques do not always apply well.

QRM can be a more effective, competitive strategy for companies targeting such markets. In addition, companies find that the lead time and cost reductions resulting from QRM enable them to compete effectively against low-cost countries.

This workshop will consist of two parts:

- An Overview of QRM Principles & Strategy
- Practical, Hands-on Manufacturing Critical-path Time (MCT)-Mapping Exercises

### Overview of QRM Strategy

1. **The Power of Time**: The non-obvious reasons why lead time is important (much more important than most managers realize), how it influences total operating cost and quality and how to take advantage of this realization.
2. **Organizational Structure**: How to restructure your organization to

minimize lead time throughout the enterprise.

3. **System Dynamics**: How interactions between machines, people and products impact your lead times. As a result, capacity planning policies (e.g. machine and labor utilization) and lot sizing policies need to be rethought for QRM.
4. **Enterprise-wide Application**: QRM is not just a shop floor approach; it is applied throughout the organization. This includes material planning and control, purchasing and supply chain management, office operations such as estimating and order processing and new product development. You will also see data on the “bottom line” impact of QRM on product cost, quality and lead times.

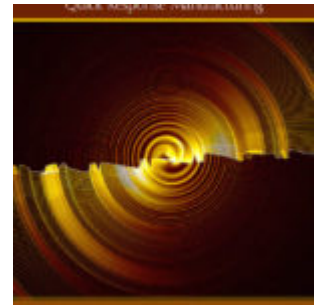
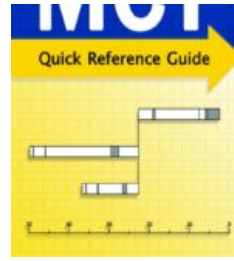
### Using MCT-Mapping to Identify Lead Time Reduction Opportunities

In partnership with colleagues from major corporations, Suri has developed the concept of Manufacturing Critical-path Time (MCT), a precise metric, which highlights improvement opportunities by clearly quantifying system-wide waste. The metric can be used for both your internal operations as well as for your supply chain.

In this portion of the workshop, you will first learn the detailed definition of MCT and understand the business case for using MCT. You will learn how to calculate MCT correctly for various situations by working on numerical examples. You will learn how to use MCT-Mapping to communicate opportunities and convince management. You will also learn the differences between MCT-Mapping and Value Stream Mapping (VSM) and see why MCT-Mapping more clearly identifies opportunities for lead time reduction.

Both parts of this workshop will combine theory with practical examples using case studies of many companies that have implemented QRM in both USA and Europe.

**\*\* Bonus \*\***



Attendees will receive a copy of Suri's books:

*It's About Time: The Competitive Advantage of Quick Response Manufacturing and MCT Quick Reference Guide.*

**Instructor:**

**Rajan Suri** is Emeritus Professor of Industrial Engineering at the University of Wisconsin-Madison. He received his Bachelors degree from Cambridge University (England) and his M.S. and Ph.D. from Harvard University. Professor Suri is the Founding Director of the Center for Quick Response Manufacturing (QRM) at the University of Wisconsin-Madison, through which around 300 companies have worked with the University on developing and implementing QRM strategies. Click [here](#) to learn more about Professor Suri.



**\*\*Currently only accepting registrations for a minimum of three, maximum of five attendees per company.\*\*** This training qualifies for WEDnetPA funding as Essential Skills Training.

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## Lean Behavior Based Safety

written by Lauri Moon | December 19, 2018

Training and behavior-based safety (BBS) programs haven't changed much over the past few decades, but the world—and workforce—has. Manufacturers are now

operating in a new reality, with a leaner and more diverse workforce that is expected to know and do more than ever before. If employees don't know the right thing, or do the wrong thing, it can result in incidents that impact employee morale, turnover and your bottom line.

Organizations know they need an effective BBS strategy, but many struggle to implement programs which achieve desired results. Until now...

Join EHS, along with Terry Mathis (Founder & CEO of ProAct Safety) and Carol Leaman (CEO of Axonify) on Wednesday, December 12th from 2 - 3 pm EST as they discuss strategies for taking your BBS program to the next level, such as:

- Building a proactive culture that promotes safety
- Weaving short bursts of daily training into your frontline's routine to make safe behavior a habit
- Using microlearning to support each phase of BBS

## **Speakers**

### **Terry L. Mathis, Founder and CEO, ProAct Safety**

Terry is the founder and CEO of ProAct Safety®, an international safety and performance excellence firm. He is known for his dynamic presentations and writing in the fields of behavioral and cultural safety, leadership, and operational performance, and is a regular speaker at ASSE (Now ASSP), NSC, and numerous company and industry conferences. He has published over 150 articles in industry magazines and is the coauthor of five books including STEPS to Safety Culture Excellence (WILEY, 2013).

Terry is a veteran of over 1600 safety, culture and performance improvement projects in 39 countries and 21 languages, and has personally assisted organizations such as Georgia-Pacific, Herman Miller, AstraZeneca, Wrigley, ALCOA, Merck, Rockwell Automation, AMCOL International, Ingersoll-Rand and many others to achieve excellence.

### **Carol Leaman, CEO, Axonify**

Carol Leaman (BA, MAcc, FCPA) is an award-winning thought leader with an impressive track record of successfully leading tech companies. Not only is she a disruptor in the corporate learning space, but she's also the brains behind the Axonify Microlearning Platform. Prior to Axonify, Carol was the CEO of PostRank Inc., a social engagement analytics platform she sold to Google. She was also the CEO at several other technology firms, including RSS Solutions and Fakespace Systems. Carol is a celebrated entrepreneur and trailblazer (Sarah Kirke Award 2010, Waterloo Region Entrepreneur Hall of Fame Intrepid Award 2011 and the Profit500 Award for Canada's Leading Female Entrepreneur 2017) whose articles appear in leading learning, business and technology publications. She also sits on the boards of many organizations and advises a variety of Canadian high-tech firms.

### Sponsored by



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# Lean Champion Level Two Certification

written by Lauri Moon | December 19, 2018

**This certification is a powerful second step for individuals looking to fortify and lead their organization's Lean Journey.**

Continuing the theme of a team-based approach to organizational opportunities, participants will further develop their skill sets to lead sustainable change within their organization. Our distinct “learn and do” approach is proven to develop Lean leaders that can manage, measure and lead their organization’s Lean transformation.

The four stages of the program: Establish the Direction, Deployment & Execution, Leadership Skills Development, Continuing the Journey - are designed to arm Change Agents with the ability to:

- Establish the organization’s Continuous Improvement Direction
- Develop the Leadership Skills necessary in the Lean Journey
- Apply improvement across the Business Enterprise
- Develop the necessary methods to Manage Daily Improvements

Learning activities of this program include:

- One-on-one interaction and guidance from a Lean Master Instructor
- A developed Continuous Improvement Strategy and Deployment Plan for a project
- One-on-one strategy and Project Coaching session

## **Session 1 - Leadership in a Continuous Improvement Organization & Tying Financials to the Journey - September 11**

Learn why leadership is so important when an organization deploys their CI journey and learn the leadership challenges in today’s workplace. This day discusses the key skills and required behaviors needed when deploying an important strategy. Participants will learn the different styles of leadership and their own leadership style. Participants will learn the importance of business financials and CI efforts.

## **Session 2 - Strategy Development and Deployment & Key Performance Indicators - September 25**

To engage an organization’s most important asset—their people—into their CI journey, an organization must provide direction. Participants will learn how to align departmental improvement initiatives that are aligned to the overall organizational

goals and objectives. As the initiatives are developed, participants will learn how to establish key performance indicators that will help measure their improvement efforts.

### **Session 3 - Project Coaching Day - October 8**

Each participant is required to lead a CI initiative within their organization. On this day, each participant shares their project with the group. Participants must demonstrate how their project is aligned to a challenge and how the project will be measured. Participants receive constructive feedback on their project.

### **Session 4 - Continuous Improvement Across the Enterprise and Mistake Proofing - October 23**

CI efforts have dominated the production / manufacturing areas of many organizations. Great improvements have been made; however, deployment solely focused upon the production side of the business is not enough. CI must be deployed across the business enterprise. Participants will learn and see how these efforts are deployed in non-production areas, such as Human Resources, Sales, Engineering, etc. The Mistake Proofing Objectives include: Understanding importance of human errors in causing defects, relate mistake-proofing and inspection, understand appropriate uses and limitations of mistake proofing, incorporate basic mistake-proofing in production and office processes and developing ideas to decrease human error in the process.

### **Session 5 - Pull Kanban & TWI Job Method and Job Instruction - November 12**

In this session, participants will understand why to use a Pull/Kanban System, the different types of Kanbans and how to and where to use a Kanban. Participants will also understand the purpose of job methods is to promote with supervisors the Importance to continuously improve the way jobs are being done as well as the purpose of job instruction is to promote with supervisors how to quickly train employees to do a job correctly, safely and conscientiously.

### **Session 6 - Emotional Intelligence & Failure Mode Evaluation Analysis**

## **(FMEA) - December 11**

Emotional Intelligence (EI) has been identified as an important part of an individual's ability to successfully cope with demands. Because of the constantly changing environments in which we live, individuals often require more than just task competencies or technical know-how to be successful. Participants will measure their level of EI and identify their strengths as well as opportunities for improvement. As Continuous Improvement Leaders, the ability to facilitate a group through decision making and other improvements requires special methods which allow the facilitator to provide leadership without taking control. Participants learn what facilitation is, decision making options, creating participation, managing group conflict and how to effectively manage meetings.

## **Session 7 - Lean Daily Management System - January 15**

As CI leaders, the ability to facilitate a group through decision making and other improvements requires special methods, which allow the facilitator to provide leadership without taking control. Participants learn what facilitation is, decision making options, creating participation, managing group conflict and how to effectively manage meetings. The program concludes with participants learning the basics of building a daily management system that helps organizations create a culture of CI.

## **Session 8 - Project Presentation & Graduation - January 29**

IMC's Lean Manufacturing Level One (or an equivalent approved by the instructor) is a required pre-requisite to the Champion program.

Taught by Lean Master Jeff Kopenitz

Lean Champion Flyer

A light breakfast and lunch will be provided. **This training qualifies for WEDnetPA funding as Essential Skills Training.**

**Register & Pay By Check**



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# Lean Manufacturing Level One Certification - Lycoming County

written by admin | December 19, 2018



**Only one seat open for the Lycoming County session. Contact Lauri Moon at 570-329-3200 or [laurim@imcpa.com](mailto:laurim@imcpa.com) to register.**

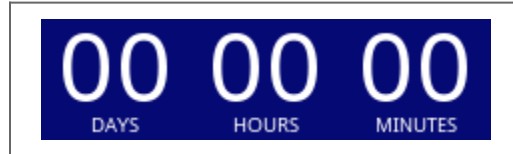
**Click here for our Centre County session starting September 20th.**

**Lean Manufacturing Level One**

# Certification

**(8 session, in-person program held in Lycoming County, PA)**

This program starts in:



## What is Level One Certification?

Lean Manufacturing is a customer-centric philosophy used by companies to continually reduce waste and improve their products. Lean methodologies help companies and leaders identify places and processes for improvement, to problem solve and implement change.

Lean Manufacturing Level One Certification is a comprehensive series of workshops introducing Lean principles. You will learn to distinguish value-added from non-value added activities to eliminate costly waste. A great starting point for an individual and company's Continuous Improvement journey, the Level One Certification is a pragmatic, hit-the-ground-running, hands-on approach that applies acquired workshop knowledge to the workplace.

You will learn how to discover improvement opportunities within your company and how to capitalize on them in a team-based format to create real value through reduced costs, increased cash flow and improved customer satisfaction.

## Topical Sessions:

This eight-module (day) program has the following topical sessions:

- A3 Thinking & Value Stream Mapping (VSM)

- Root Cause & Standard Work
- Effective Communication & Principles of Daily Improvement
- Plant Tour & Project Coaching
- Leading Through Change & Visual Workplace
- Teams & Changeover Reduction
- Capstone
- Team Presentation & Graduation

## Upon completion you will be able to:

- Understand how to recognize and eliminate waste through the cycle of PLAN-DO-CHECK-ACT
- Know how to determine value added, non-valued added and necessary non-value-added activities
- Identify the value stream, how it's mapped and how to identify the areas that require improvement
- Develop a road map and an implementation plan
- Understand and apply lean tools such as value stream mapping, workplace organization, change management, teaming and kaizen methodology
- Turn data into actionable information in order to quantify problems and prioritize countermeasures
- Understand "KATA" methodology and how to use a structured approach to coaching that drives continuous improvement thinking and acting down to the contributor level

## Why should you attend?

- Gain knowledge for using **A3 methodologies**, improving team communication, reducing collaboration challenges
- Learn the value stream mapping (VSM) process to help you identify waste, reduce lead times, standardize workflows **keeping costs low, efficiencies high**
- Boost team **productivity** by making every minute count, streamlining processes to **reduce waste**, create a **safe workplace** that fosters innovation

- **Improve communication** in all levels of your organization, changing hurdles and obstacles into **opportunities** for change and transition
- Create an **individualized roadmap** linked to your **company objectives** that ends frustration and misunderstanding during team efforts

Along with these and other concepts, you will attend a plant tour to help illustrate and use the techniques taught to **identify improvement opportunities** at a manufacturing facility.

The workshop series concludes with participant project presentations **fostering constructive dialogue** and **feedback with peers**.



## What's Included:

- There will be numerous opportunities to network with peers, gain insights from manufacturing operations that are different from your own and build essential skills that will inspire you for improved performance.
- There will be a plant tour, allowing you to see the application of Lean best practices in a real-world situation.
- You will receive a 298 page, 12-tab three ring binder complete with all materials necessary for the course.
- Stylish commemorative award and certificate of completion (upon successfully completing).

- Light breakfast and lunch during session days.

## Where:

Unless otherwise noted all sessions will be held at the Penn College Earth Science Center just outside of Williamsport, in Montgomery, PA (Lycoming County). Please see map.

## When:

All sessions are **in-person** and will start **promptly at 8:00 AM** and will typically **end by 4:30 PM**. (Light breakfast and lunch are provided.)

- September 19
- October 3
- October 17
- October 31
- November 21
- December 5
- December 12
- December 19

## Who Should Attend:

Production or process managers/supervisors, front-line leaders/supervisors, operations managers, quality control leaders, shift leaders, small business owners, and others who want to increase their knowledge of manufacturing methodologies and advance in their profession.

This program typically fills to capacity long before to the registration deadline. Why wait?

Taught by Lean Master Jeff Kopenitz

Fall 2024 Lyco Cty Lean Level One Certification Flyer

**This training qualifies for WEDnetPA funding for qualified participants. Not familiar with WEDnetPA funding, contact IMC at [info@imcpa.com](mailto:info@imcpa.com) or (800) 326-9467.**

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# IMC Graduates 1st Lean Champions Level Two Class

written by Lauri Moon | December 19, 2018

IMC is pleased to recognize the following companies with graduates from our first Lean Champions Level Two class.



2018 Lean Champion Graduates

- Advanced Powder Products, Inc.
- Albemarle Corp.
- Construction Specialties, Inc.
- Custom Container Solutions
- First Quality Tissue
- Hermance Machine Co.
- Jersey Shore Steel - Fabrication Division

- Lewis Lumber Products, Inc.
- Pik Rite, Inc.
- Restek Corp.

Many of our Level One participants wanted to go further in their Lean journey so we developed the Lean Champions program. Level Two is a powerful second step for individuals looking to fortify and lead their organization's Lean efforts. Continuing the theme of a team-based approach to organizational opportunities, participants further develop their skill sets to lead sustainable change within their organization. The distinct "learn and do" approach is proven to develop Lean leaders that can manage, measure and lead their organization's Lean transformation.

[Click here to learn more about Lean Champions Level Two.](#)

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# Lean Manufacturing Level One Certification - Centre County

written by admin | December 19, 2018



## Lean Manufacturing Level One

# Certification

**(8 session, in-person program held in Centre County, PA)**

This program starts in:



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You will learn how to discover improvement opportunities within your company and how to capitalize on them in a team-based format to create real value through reduced costs, increased cash flow and improved customer satisfaction.

**Register now for only \$1,995!**

[Register](#)



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- You will receive a 298 page, 12-tab three ring binder complete with all

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- Stylish commemorative award and certificate of completion (upon successfully completing).
- Light breakfast and lunch during session days.

## Where:

Unless otherwise noted, all sessions will be held at the Technology Center at Innovation Park, State College, PA (Centre County). Please see map.

## When:

All sessions are **in-person** and will start **promptly at 8:00 AM** and will typically **end by 4:30 PM**. (Light breakfast and lunch are provided.)

- September 20
- October 4
- October 18
- November 1 - Plant Tour
- November 22
- December 6
- December 13
- December 20

## Who Should Attend:

Production or process managers/supervisors, front-line leaders/supervisors, operations managers, quality control leaders, shift leaders, small business owners, and others who want to increase their knowledge of manufacturing methodologies and advance in their profession. This program typically fills to capacity long before to the registration deadline. Why wait?

# Register today for only \$1,995!

[Register](#)

Taught by Lean Master Jeff Kopenitz Fall 2024 Centre Cty Lean Level One Certification Flyer **This training qualifies for WEDnetPA funding for qualified participants. Not familiar with WEDnetPA funding, contact IMC at [info@imcpa.com](mailto:info@imcpa.com) or (800) 326-9467.**