

LSS Integration Course

WORKSHOP KEY POINTS

- **Strives** to eliminate waste through continuous improvement of processes and systems.
- **Ideally**, no waiting time between steps in a process.
- **Product** is continually being worked on, increasing its value to the customer.
- **Reducing variation increases yield and quality.**
- Lean Sigma impacts two key measures of all processes:
 - **Effectiveness** – A quality-based measurement (defects/errors)
 - **Efficiency** – A time-based measurement (cycle time/speed)

LSS INTEGRATION WORKSHOP

WORKSHOP ONE

Covers everything you wanted to know about:

- **Factory Layouts** (Good, Bad, *With and Without* Monuments)
- **Batches** (Why They are Bad and How to Correct Them)
- **System Constraints** (How to Identify Them, Correct Them, and Use Them to Work FOR You Instead of Against You)

From watching the videos, you can see that how we improve our system can have a profound impact on our ability to process products.

WORKSHOP TWO

Covers everything you wanted to know about:

- **Constraints** (System and Process Bottlenecks)
- **Constraints** (How to Identify them and Fix Them)
- **Inventory with a bottleneck** (Before the Constraint and After)
- **Push versus Pull Systems** (Created by the Bottleneck)

WORKSHOP THREE

Covers everything you wanted to know about:

- **Material Movement** (In Your System)
- **Impact of Material Movement** (On Inventory)
- **Impact of Material Movement** (Lead Time)
- **Impact of Material Movement** (Thruput)

WORKSHOP FOUR

Covers everything you wanted to know about:

- **Variation Reduction** (Process Capability and How to Measure It)
- **Defect Reduction** (How to Identify Defective Processes and Improve Them)
- **Process Capability Compared to Tolerance Limits** (Process Versus Customer)

WORKSHOP FIVE

Covers everything you wanted to know about:

- **Lead Time and Inventory** (How is Inventory Measured and What Are the Turns)
- **Lead Time** (How to Calculate It)
- **Lead Time** (How to Reduce It)

WORKSHOP SIX

Covers everything you wanted to know about:

- **How to Set Up Your System** (With All the Strategies Working for You)

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What people say about Wyrick Enterprises LSS Integration Simulation

I had the opportunity to work with Brad Wyrick on several training and educational programs. Mr. Wyrick served Cal State Fullerton in a consultative role, researching, and developing curriculum for a new Lean Enterprise certificate program. Brad also put together a team of instructors for the program, and the inaugural class was successful by every measure. Every class was introduced to Wyrick's Lean Six Sigma Integration Simulation. Which became the highlight of their learning experience, even above plant tours at Toyota. Student evaluations were unanimously positive, and many of the students requested on-site training for their companies. Mr. Wyrick also served as the facilitator of a CSUF advisory board charged with the development of a Six Sigma program. He was able to extract an enormous amount of information from the participants in the group, and he contributed additional valuable information from his own research.

***Cindy Winchester Lay, Director
Cal State Fullerton University***

Over my consulting life, I have used many types of simulations to try and convey the various learning concepts of Lean and Six Sigma. Most of those simulations failed to adequately convey the concepts to the participants. Most of the time participants argued about why the simulation had nothing to do with them.

The Lean and Six Sigma Integration Simulation Wyrick Enterprises presented is the only exception in my experience of using simulations. After participating in your simulation, students universally felt they really understood the underlying concepts of the simulation. As the instructor, I was incredibly pleased that after your simulation, all the students felt the time for the simulation was well spent, and that they had a much better understanding of the concepts and principles. I found in each of the classes where the simulation was used, that students referred to the simulation for weeks afterward as an incredibly positive part of the class.

Without hesitation, I would recommend this simulation as an unbelievably valuable learning tool.

**Roger E. Olson
Managing Partner
Systems Quality Consulting**

What people say about Wyrick Enterprises LSS Integration Simulation

Wyrick Enterprises conducted two workshops for our cross-functional teams dealing with Lean Process Improvement. Butch Alaksa introduced us to the Lean and Six Sigma Integration Simulation which demonstrated why, how, and when the improvement tools should be used in relation to specific processes.

We had management and shop personnel together during the Simulation and explored how the value streams interacted and supported one another. What sets this simulation apart is that it deals with the process and what happens to our production plan based on individual Lean strategies introduced into the system. We believe the integration of multiple tools and strategies produces sustainable results. The simulation is a great way to introduce an organization to the proper way to start and maintain improvements throughout their business.

In sum, both Brad Wyrick and Butch Alaksa did a great job working with our team. I would recommend Wyrick Enterprises' Lean and Six Sigma Integration Simulation and their consulting services to any organization seeking to utterly understand process improvement tools and their implementation throughout their business.

Kevin J. Hartnett
General Manager
DYNACAST

With confidence I would like to extend my recommendation concerning the Lean/Six Sigma Simulation that we used with great success in the Lean Enterprise Certification Program offered through Cal State Fullerton, Extended Education. It is one of the few manufacturing simulations that is both pragmatic as well as entertaining. Students often commented on how "real" the simulation duplicated issues and problems within their own organizations. This allowed them to experiment with different approaches, measure the results, adjust, and fine tune the system until the desired performance was achieved. That kind of approach is rarely allowed in the business world.

I believe the simulation would be well received by any company offering it to their employees and would benefit by having their populace participate in a simulation that would facilitate their own journey.

Manny Fernandez, Jr.
MFI Consulting/Training
