

Lean Enterprise Value (LEV) Simulation Course

Description

The Lean Enterprise Value (LEV) simulation is a unique tool for demonstrating the value and challenges of implementing lean principles and practices at the enterprise level. The course is comprised of four modular simulations developed on a foundation of insights gained through more than 11 years of intensive research and Lean Aerospace Initiative consortium real-world experience. It is a complete, flexible simulation of a complex enterprise, which allows hands-on lessons in lean improvement.

Objectives/Topics

The LEV simulation utilized in the course was developed by the MIT Lean Aerospace Initiative (LEI) Consortium and is currently in version 2.0. The LEV simulation provides a very effective practice field for a variety of lean skills and tools. With the addition of formal teaching and exercises, and in some cases minor modifications to the simulation itself, the course can greatly increase the value of this hands-on practice in areas such as:

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|----------------|--------------------------|-----------------------------------|
| 5 S | Value Stream Mapping | Project Accounting |
| Kanban | Product Development VSM | Paperless business systems |
| Level Loading | Lean Engineering | Statistical Process Control (SPC) |
| Takt time | Supplier network design | Other quality tools |
| Visual control | Just in time delivery | Change planning |
| Pull | Make/Buy and outsourcing | Knowledge sharing/management |

Simulation

The LEV simulation is a tool for teaching enterprise-level lean thinking. It includes manufacturing, a supplier network, engineering, and service and support areas that must work together to achieve enterprise performance. While participating in the individual modules of the simulation, the participants must identify not only how to improve the mechanical aspects of their processes, but also the more complex challenge of how to interact with elements of the enterprise outside their control, i.e. on mechanical, financial, and human levels.

The simulation is designed around teaching a few high-level lessons. Examples of these lessons include but are not limited to:

- Change management processes
- Economics of lean transformation
- Communication and teamwork during both operations and transformations
- Enterprise Value Stream Mapping and Analysis (EVSMA)

Course Length

4 Days (8 a.m. – 5 p.m.)

Class Size

10 to 25 participants

Cost:

- \$2500 per person
- Available as a dedicated on-site course –Please email or call for details.