Lean Six Sigma Yellow Belt Program

Description

The LSS Yellow Belt program is built to educate participants on the basic vocabulary of Lean and Six Sigma and to introduce several Lean tools practiced via a real project.

The first sessions present the basic content, such as, the history and value of Lean and Six Sigma, introduction to system's thinking, A3 and Kaizen improvement approaches, organizational measurement strategies, voice of the customer, project and process management, root cause analysis, waste elimination, cycle time reduction, dynamic idea generation and the visual factory. The student is encouraged (may be required) to bring an improvement project idea to the training so that they can apply the tools they're learning to their specific job. As the course progresses the content presentation tapers to the students presenting their implementation of the newly learned techniques to the class for their respective problem statement. The final class is reserved for the students to present their improvement projects. The problem solving approach used is the A3 improvement method.

The classes are offered in-person and instructed by a certified Lean Six Sigma Black Belt or Master Black Belt. Our instructors are practitioners first and trainers second. The students benefit from 'real-world' examples given in context of the material as it is presented. Each class is highly participatory where students are encouraged to engage and offer their own experiences.

Course Length

18 contact hours

Learning Objectives

1. Describe the origination of continuous improvement and the impact of different improvement methodologies.
2. Describe the relationship among various organizational processes through the use of value stream maps, process maps, flowcharts, procedures, work instructions, interrelationship digraphs, circle diagrams, etc.
3. Through understanding systems thinking, anticipate the effect of system components (e.g. work cells) on the overall flow of the process.
4. Define and describe various business performance measures, including a balanced approach to articulate financial, customer, operational and learning metrics using different types of data and measurement scales.
5. Identify and describe appropriate data collection mechanisms for capturing the voice of the customer.
6. Describe fundamental project management methods including; problem statements, project scopes, and project goals and objectives.
7. Define basic statistical terms and describe basic descriptive statistics.
8. Define waste elimination approaches; such as TIMWOOD, Kanban, 5S, standard work, and Poka-Yoke.
9. Define cycle time reduction approaches such as; TAKT time, SMED, and TPM.
10. Define various tools for identifying improvement opportunities, including Dynamic Idea Generation (DIG), Kaizen events, standardization, etc.
11. Describe the purpose of root cause analysis (RCA) through the familiarity of RCA tools, such as;

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5 whys, Pareto charts, and cause & effect tools.
12. Describe the use of Visual Factory and Gemba for controlling processes and identifying improvement opportunities.

Knowlege Areas Covered

- Value of Lean Six Sigma
- Project Management Basics
- Basic Statistic Concepts
- Lean Six Sigma Acronyms
- Theory of Constraints
- Kaizen
- Value Add vs. Non-value Add
- Kanban
- 5S
- Poka-Yoke
- Process Definition
- Value Stream Maps
- TAKT Time
- SMED
- Total Productive Maintenance (TPM)
- Standard Work
- Collecting Customer Data
- Concentration Maps
- Dynamic Idea Generation
- Visual Factory
- C&E Diagram & C&E Matrix
- Gemba Management

Program Cap
18 participants

Reference Material
Lean Six Sigma Yellow Belt Student Handbook. Look Inside! [1]

Sign Up

Ceptara provides this program to organizations as part of their internal training courses or as a standalone program. Learn more and Request a FREE Quote... [2]

If you are an individual interested in the LSS Yellow Belt program, these courses are offered via Open Enrollment at Everett Community College and Cascadia College in Washington state.
Tell me more... [3]

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