

Implementing Lean Software Development: Practitioners' Course

Duration

2 days

Instructor

Mary Poppendieck

Class Limit

20 students

Prerequisite

None

Price

On-site

Please contact SPC
for pricing (contact
information on page 2)

Public Training

\$1495 (2 days)

Materials Provided

- Student manual containing the course slides
- Student handouts with class exercises

As global competitiveness comes to the software development industry, the search is on for a better way to create first-class software rapidly, repeatedly, and reliably. Lean initiatives in manufacturing, logistics, and services have led to dramatic improvements in cost, quality and delivery time; can they do the same for software development? Absolutely!

Of the methods designed to improve software development, Lean is emerging as one that is grounded in decades of work understanding how to make processes better. Lean thinking focuses on giving customers what they want, when and where they want it, without a wasted motion or a wasted minute.

Implementing Lean Software Development: Practitioners' Course will guide participants on how to apply lean principles such as: Rapid Response, Constant Learning, Built-in Quality, Local Responsibility and Global Optimization to software development by working through real problems. This two-day workshop is an even mixture of lecture and small group work on case studies. After each topic is presented, attendees apply the concept to a real project of someone in the group.

At the end of this seminar, participants will be able to:

- Develop a value stream map of today's software development organization, and create a new map for the future.
- Reorganize the software development process around iteration cycles and simplify project management.
- Assess the state of basic disciplines which determine software development process capability.
- Understand how to drive software quality by moving testing to the front and center of the development process.
- Organize a visual workplace so that everyone knows the most important thing to do next without being told.
- Create a financial model for a software development project and use it to make optimal tradeoff decisions.
- Gauge the capacity of the software development organization and limit work to match that capacity.
- Negotiate contracts that encourages a collaborative relationship between companies

TRAINING

Implementing Lean Software Development: Practitioners' Course

Instructor

Mary Poppendieck has been in the Information Technology industry for twenty five years. She has managed solutions for companies in several disciplines, including supply chain management, manufacturing systems, and digital media. As a seasoned leader in both operations and new product development, she provides a business perspective to software development problems.

As Information Systems Manager in a video tape manufacturing plant, Mary first encountered the Toyota Production System, which later became known as Lean Production. She implemented one of the first Just-in-Time systems in 3M, resulting in dramatic improvements in the plant's performance.

Mary's team leadership skills are legendary in 3M, where new product development is a core competency. One team commercialized a graphics interface controller three times faster than normal. Another team not only developed an image database system in partnership with a start-up company, but also set a new international standard for image formats.

A popular writer and speaker, Mary's classes on managing software development offer a fresh perspective on project management. Her book *Lean Software Development: An Agile Toolkit*, published by Addison Wesley in May 2003, won the Software Development Productivity Award in 2004.

For more information on this or other SPC Springboard courses, please visit www.spcspringboard.com or e-mail SPC at info@spc.ca

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Intended Audience

This program is designed for senior software development practitioners, team leads and managers who are considering lean software development for their organizations. It will be particularly useful to those who are looking for tools and practices that they can put to use.

Outline

This seminar format provides an in-depth exploration of strategies for applying the seven lean principles of:

1. Eliminate Waste
2. Build Integrity In
3. Amplify Learning
4. Respect People
5. Delay Commitment
6. Deliver Fast
7. Optimize the Whole

In addition, practical implementation techniques are covered, including:

- Creating and using value stream maps
- Key metrics
- Assessing your process capability
- Using financial calculations to make optimal decisions
- Applying queuing theory to the software development pipeline
- Approaches for outsourcing & contracts

