

Lean Product Development

Two-Day Workshop

Presented by –

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Course Description –

Despite an increasing need for speed and efficiency, much of the effort expended by product development teams is often unnecessary and potentially wasteful. In many cases, *only one hour in eight* of team member's time is actually spent directly creating value for their customers. The *Lean Product Development* workshop presents a set of leading-edge, practical tools for slashing waste and increasing speed and efficiency. The twelve “lean methods” described in this course enable dramatic reductions in time-to-market while freeing up valuable resources for additional project work. Firms that have embraced these practical, waste-eliminating tools have reported up to 50 percent reduction in launch schedules, dramatic improvements in gross margin, and enhanced customer satisfaction. This hands-on workshop covers all aspects of the subject, including the a step-by-step process for tailoring your own lean process that will enable rapid, high-value product development.

Upon completing this course, students should be able to –

1. Identify non-value-added tasks and wasteful work habits on any development project.
2. Apply twelve lean methods that provide immediate savings of time and cost.
3. Use a step-by-step method for prioritizing improvement activities.
4. Improve the quality and efficiency of customer / team / management communication.
5. Maximize utilization of scarce human and capital resources.
6. Support a culture of discipline, value-focus, and intolerance of waste.

Who Should Attend -

Product-line managers, team leaders, task managers, functional managers, six-sigma blackbelts / green belts, improvement champions, operations managers, process owners, design engineers, and all others with product development responsibilities.

Course Outline –

Note: A series of practical workshop exercises accompanies the following lecture agenda, including value-stream mapping of real-life development projects, and brainstorming on ways to immediately eliminate non-value-added waste. The output of the workshop is a prioritized action list for immediate improvement.

Part I. How You Will Benefit

Part II. A Brief “Lean Thinking” Tutorial

Part III. A Toolbox for Speed and Efficiency

- Method #1 – Testing for Customer Value
- Method #2 – Linked Tasks and the Deliverables Roadmap
- Method #3 – Time Slicing and Stand-up Meetings
- Method #4 – Project Data Management
- Method #5 – The “Waste-Free” Design Review
- Method #6 – Staged-Freeze Specifications
- Method #7 – Visual Pull Systems
- Method #8 – Standard Work Methods and Templates
- Method #9 – Risk Buffering and Value Increments
- Method #10 – Resource Prioritization and “Superteams”
- Method #11 – Lean Supplier Management
- Method #12 – Lean Self-Assessment and Kaizen Tools

About the Instructor –

Ronald Mascitelli, PMP (Project Management Professional, MS Solid State Physics, University of California, Los Angeles; BA Physics / Applied Mathematics, California State University, Fullerton) is the Founder and President of Technology Perspectives. Mr. Mascitelli is a recognized leader in the development of advanced project management and product development methods, with an emphasis on eliminating non-value-added waste and maximizing team productivity. He currently presents his workshops and seminars internationally to public audiences, and has created company-specific educational programs for a number of leading firms, including Lockheed-Martin, Boeing, Parker-Hannifin, L3 Communications, Teledyne Electronics Corporation, Mutual of Omaha, Harris Corporation, BF Goodrich, Conexant, GM Delphi, Hughes Electronics, Computer Sciences Corporation, Edison International, Rockwell Automation / Allen-Bradley, Raytheon Systems Company, Applied Materials, Invensys, The Foxboro Company, and LSI Logic.

Mr. Mascitelli served as both Senior Scientist and Director of Research and Development for Hughes Electronics and the Santa Barbara Research Center. His industry experience includes management of advanced technology development programs for the Department of Defense, the Defense Advanced Research Projects Agency, Lawrence Livermore Laboratory, NASA, the Army Night Vision Laboratory, and the Department of Energy. He also served as Program Manager and Technical Director on several Strategic Defense Initiative (SDI) programs.

Since founding Technology Perspectives in 1994, Mr. Mascitelli has published over twenty papers and technical articles in major journals, including the *International Journal of Technology Management* and *The Journal of Product Innovation Management*, and is a contributing author for IEEE’s *Technology Management Handbook*. Mr. Mascitelli is also the author of a critically acclaimed book on lean project management, entitled *Building a Project-Driven Enterprise: How to Slash Waste and Boost Profits Through Lean Project Management*, and his latest book, entitled *The Lean Design Guidebook*.