

Six Sigma Agile: Integrating Lean Principles for Excellence

18 – 22 October 2027
Amsterdam (Netherlands)

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Why This Course

Organizations need improvement approaches that are both disciplined and adaptable. Six Sigma provides powerful tools for reducing defects, analyzing variation, and improving process quality, while Agile supports speed, flexibility, collaboration, and continuous delivery. When combined effectively, they create a practical framework for improving performance while responding quickly to changing business needs.

This intensive 5-day Six Sigma and Agile Integration Training program equips participants with the knowledge and tools to combine Lean principles, DMAIC, statistical analysis, and Agile practices. The course covers Six Sigma fundamentals, Agile and Scrum, waste reduction, VOC, CTQ, process mapping, root cause analysis, FMEA, DOE, rapid prototyping, SPC, visual management, Agile metrics, dashboards, and continuous improvement culture. Through hands-on exercises and real-world case studies, participants will learn how to improve quality, accelerate delivery, and drive innovation across teams and processes.

What You'll Learn and Practice

By joining this program, you will:

- Understand the core principles of Six Sigma, Lean, and Agile methodologies.
- Apply the DMAIC framework in Agile project environments.
- Use Lean concepts to identify and reduce waste.
- Build project charters and conduct stakeholder analysis.
- Capture Voice of Customer requirements and develop CTQ trees.
- Apply process mapping and value stream analysis.
- Develop data collection plans and assess measurement systems.
- Use root cause analysis techniques to solve process problems.
- Apply statistical analysis, hypothesis testing, and FMEA.
- Use Agile retrospectives to support continuous improvement.
- Apply DOE, pilot testing, rapid prototyping, and solution prioritization.
- Use SPC, mistake proofing, visual management, Agile metrics, and dashboards.

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A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver, set against a background of concentric circles.

The Program Flow

Day 1: Foundations of Six Sigma and Agile

- Understand Six Sigma principles and the DMAIC methodology.
- Explore Agile philosophy and the Scrum framework.
- Apply Lean concepts and waste reduction techniques.
- Compare Six Sigma, Lean, and Agile approaches.
- Identify practical opportunities for integrating Six Sigma and Agile in organizations.

Day 2: Define and Measure Phases in an Agile Context

- Develop project charters for improvement initiatives.
- Conduct stakeholder analysis for cross-functional projects.
- Capture Voice of Customer needs and translate them into Critical to Quality requirements.
- Apply process mapping and value stream analysis.
- Build data collection plans and understand measurement system analysis.

Day 3: Analyze Phase and Agile Problem-Solving

- Apply root cause analysis techniques.
- Use statistical analysis and hypothesis testing to support decisions.
- Conduct Failure Mode and Effects Analysis.
- Use Agile retrospectives to identify improvement opportunities.
- Connect data-driven analysis with fast-paced Agile problem-solving.

Day 4: Improve Phase and Agile Implementation

- Apply Design of Experiments within Agile sprint cycles.
- Select and prioritize improvement solutions.
- Use pilot testing and rapid prototyping to validate ideas.
- Manage change and engage stakeholders during implementation.
- Integrate improvement actions into Agile delivery cycles.

Day 5: Control Phase and Sustaining Improvements

- Apply Statistical Process Control in Agile environments.
- Use mistake proofing and visual management to sustain improvements.
- Develop Agile metrics and performance dashboards.
- Build knowledge-sharing practices across teams.
- Create a continuous improvement culture that supports quality, speed, and innovation.

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A graphic illustration of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. The board is checkered, and there are concentric circles in the background.

Individual Impact

- Build confidence in combining Six Sigma discipline with Agile flexibility.
- Strengthen problem-solving, statistical analysis, and process improvement skills.
- Improve ability to lead cross-functional teams in fast-moving environments.
- Gain practical tools for reducing waste, improving quality, and accelerating delivery.
- Develop stronger capability in sustaining improvements through metrics and dashboards.

Work Impact

- Improve process efficiency, quality, and delivery performance.
- Reduce defects, waste, rework, and operational bottlenecks.
- Strengthen data-driven decision-making across teams.
- Accelerate improvement initiatives through Agile implementation practices.
- Support a culture of continuous improvement, innovation, and measurable performance.

Training Methodology

This program combines Six Sigma tools with Agile application through:

- DMAIC and Agile integration case studies.
- Project charter, VOC, and CTQ development exercises.
- Process mapping and value stream analysis workshops.
- Root cause analysis, hypothesis testing, and FMEA activities.
- DOE, rapid prototyping, and solution prioritization simulations.
- SPC, dashboard design, retrospectives, and continuous improvement exercises.

Beyond the Course

Upon completion, participants will be able to:

- Lead improvement projects using integrated Six Sigma and Agile approaches.
- Apply DMAIC tools within Agile iterations.
- Use data and statistical analysis to support faster decisions.
- Improve team delivery through Scrum practices and Agile metrics.
- Accelerate process improvements while maintaining quality control.
- Build practical systems for sustaining continuous improvement and innovation.

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The board is checkered and has a subtle grid pattern. The text 'UK Training PARTNER' is overlaid on the right side of the board.

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