

Six Sigma Agile: Integrating Lean Principles for Excellence

2027 〇〇〇〇〇 2 - 〇〇〇〇〇 28
Tokyo (Japan)

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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.

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.

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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 text 'UK Training PARTNER' is overlaid on the board.

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