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Smart Manufacturing with AI, Lean & Agile

Course No. 536

The future of manufacturing is smart, connected, and adaptive. By integrating AI with Lean principles and Agile practices, organizations can unlock higher productivity, reduce waste, and accelerate responsiveness to market changes.

Course Benefits

This course equips participants with the tools, methods, and strategies to deploy smart manufacturing systems that leverage AI-driven insights, Lean efficiency, and Agile adaptability- ensuring sustainable growth and competitive advantage.

Prerequisites

Knowledge of basic Lean or Agile principles is helpful but not mandatory and familiarity with manufacturing operations or industrial process.

Duration

Four Days (28 hours)

Learning Objectives

At the end of this course, attendees will be able to:

1. Understand the role of AI in industry 4.0 and smart manufacturing
2. Apply Lean principles to eliminate waste while enabling digital efficiency
3. Incorporate Agile practices for flexibility in manufacturing operations
4. Use AI for predictive maintenance, demand forecasting, and quality improvement
5. Design adaptive production systems that respond to real-time data
6. Build a roadmap for deploying smart manufacturing with AI, Lean and Agile.

Topics Covered:

- Smart manufacturing & Industry 4.0 foundations
- Role of AI, IoT, and data analytics in manufacturing
- Applying Lean thinking in digital manufacturing
- Agile practices for adaptive operations & innovation
- AI-driven predictive maintenance & quality control
- Real-time process monitoring & automation with AI
- Digital twins, robotics, and smart factories
- Roadmap for implementing smart manufacturing with AI, Lean & Agile

Who Should Attend?

This course is ideal for manufacturing leaders and managers, process improvement professionals, Lean Six Sigma practitioners, industrial engineers and operations specialists, digital transformation & smart factory teams, or professionals seeking to modernize manufacturing with AI, Lean and Agile.



MAKING BOTTOM LINE IMPACT

Email: Training@qpsinc.com Website: www.qpsinc.com

Instructor

The instructor is a professional with 10+ years of AI experience.

For More Information:

Contact Training administrator: Training@qpsinc.com , Telephone: (508) 786-0777