

Six Sigma Green Belt Certification: Process Improvement

Audit & Quality Assurance
Manama (Bahrain)
25 - 29 May 2025

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Six Sigma Green Belt Certification: Process Improvement

Ref: 3046_130773 **Date:** 25 - 29 May 2025 **Location:** Manama (Bahrain) **Fees:** 3700 **Euro**

Course Description

This intensive 5-day Six Sigma Green Belt certification course equips participants with the tools and methodologies to lead process improvement projects. Attendees will master the DMAIC framework, statistical analysis techniques, and Lean principles to drive efficiency, reduce waste, and enhance quality in their organizations.

Learning Objectives

- Understand and apply the DMAIC Define, Measure, Analyze, Improve, Control methodology
- Utilize statistical tools and data analysis techniques for process improvement
- Implement Lean principles to eliminate waste and enhance efficiency
- Develop project management skills to lead successful Six Sigma initiatives
- Apply root cause analysis and problem-solving techniques

Course Modules

Day 1: Introduction to Six Sigma and Define Phase

- Six Sigma fundamentals and DMAIC overview
- Project selection and charter development
- Voice of the Customer VOC and Critical to Quality CTQ characteristics
- Process mapping techniques SIPOC, Value Stream Mapping

Day 2: Measure Phase

- Data collection planning and sampling methods
- Measurement System Analysis MSA and Gage R&R
- Process capability analysis
- Introduction to Minitab statistical software

Day 3: Analyze Phase

- Exploratory Data Analysis EDA techniques
- Hypothesis testing and confidence intervals
- Correlation and regression analysis
- Root cause analysis tools Fishbone diagram, 5 Whys

Day 4: Improve and Control Phases

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- Design of Experiments DOE basics
- Solution selection and prioritization methods
- Implementation planning and change management
- Statistical Process Control SPC and control charts

Day 5: Lean Principles and Project Management

- Lean concepts and waste elimination techniques
- 5S, Visual Management, and Standard Work
- Project management and team leadership skills
- Six Sigma project simulation and case studies

Practical Wins for Participants

- Ability to lead process improvement projects that deliver measurable results
- Enhanced problem-solving skills applicable across various business functions
- Improved data analysis and decision-making capabilities
- Increased value to employers as a certified Six Sigma Green Belt professional

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