

## SeminarsWorld® Course Agenda

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### Advanced Project Quality and Lean Six Sigma

**Instructor(s):** Frank Anbari, PMP

**Length:** 2 days

**Pre-work:** None

**CEUs:** 1.4 / See below for PDU breakdown

**Level:** Intermediate

**Primary Topic:** Strategic Application and Governance

**Subtopics:** Quality Measures, Strategic Planning and Implementation, Portfolio Management

#### Course Description:

In this interactive seminar, participants will strengthen their understanding of planning and monitoring quality in their projects. They will increase their knowledge of the Six Sigma method and Lean Six Sigma, their applications in their organizational setting (manufacturing, IS/IT, financial services, healthcare, government, etc.), and the role of Yellow Belts, Green Belts, Black Belts, Executive Black Belts, Champions, and other participants in Six Sigma projects.

Participants will reinforce their understanding of the cost of quality, ISO 9000, and ISO 21500 standards for effective project quality management. They will expand their knowledge of selected, relevant tools of quality and Lean Six Sigma, and enhance their understanding of the integration of project management and Lean Six Sigma strategies. With this comprehensive introduction to measurement, you will discover how to assess what's performing well and what needs improvement to build a business case for project management improvement initiatives. Become proactive in implementing measurement strategies aimed at improving your organization's project management performance.

#### Learning Objectives:

*Upon completion of this course, participants will be able to:*

- Identify appropriate quality, Six Sigma, and Lean Six Sigma strategies for their projects
- Understand the main concepts of the Six Sigma method and Lean Six Sigma
- Clarify the relationship between project management maturity models and project quality
- Use effective quality, Six Sigma, and Lean Six Sigma planning tools
- Understand the cost of quality and its importance to efficient project management
- Understand the concepts of life cycle costing and total cost of ownership
- Understand where and how to use selected, relevant, effective quality assurance methods, quality control techniques, and Lean Six Sigma tools
- Clarify the main elements of identifying and managing Lean Six Sigma projects
- Understand the roles of White Belts, Yellow Belts, Green Belts, Black Belts, Champions, and other participants in Six Sigma projects
- Clarify the relationship between Six Sigma method, Lean Six Sigma, and project management, and plan integration of project management and Lean Six Sigma strategies in their organizational settings (manufacturing, IT, financial services, healthcare, government, etc.).

## AGENDA

### Day 1:

1. Overview of Project Quality, Six Sigma Method, and Lean Six Sigma
  - Historical Development of Quality Management, Six Sigma Method, and Lean Six Sigma
  - Project Quality Management
  - Quality and Project Management Maturity
  - Successful implementation of Lean Six Sigma in Major Organizations and Industries
  - Main Concepts of Lean Six Sigma
  - Relationship of Lean Six Sigma to Other Business Systems Improvement Methods
2. Planning Quality and Lean Six Sigma Projects
  - Planning the Lean Six Sigma Initiative
  - Lean Six Sigma Project Recognition, Selection, and Definition

- Organizing for Successful Six Sigma, and Lean Six Sigma Implementation
  - Roles of White Belts, Yellow Belts, Green Belts, Black Belts, Master Black Belts, Executive Black Belts, Champions and Other Participants
  - Promising Practices in Six Sigma Project Management
3. Project Quality and Lean Six Sigma Planning
    - Planning the Quality Strategy for the Project
    - The Project Quality Plan
    - The Kaizen Cycle and Gemba Kaizen
    - Cost of Quality
    - Building Quality into the Project
    - Training, Operation, Maintenance, and Support
    - Life Cycle Costing and Total Cost of Ownership

### Day 2:

4. Project Quality Assurance
  - International Quality Standards
  - Quality Assurance Tools
  - Quality Audits
  - ISO 9000 Standards
  - ISO 10006 Guidelines to Quality in Project Management
5. Project Quality Control and Lean Six Sigma Tools
  - Data and Measurements
  - Variation
  - The Normal Distribution
  - Statistical Control Charts
  - Process Capability
  - Capability Index

- Root Cause Analysis and the Five Whys Method
  - Failure Mode and Effect Analysis
  - Selected Quality Control and Lean Six Sigma Tools
  - Selected Statistical Analysis Tools
6. Integration of Lean Six Sigma and Project Management strategies
    - The Relationship between the Six Sigma Method, Lean Six Sigma, and Project Management
    - Main Issues in Managing Lean Six Sigma Projects
    - Application and Benefits in Organizational Settings (manufacturing, IT, financial services, healthcare, government, etc.)
    - Managerial and Implementation Issues

**Professional Development Units (PDUs)** are one-hour blocks of time spent learning, teaching others, or volunteering. By attending this SeminarsWorld course, you will be able to achieve the following PDUs as learning hours to apply for PMI certification or to maintain your certification status with PMI. [View](#) how your PDUs align with the PMI Talent Triangle®.

	Technical	Leadership	Strategic	Total
CAPM / PMP / PgMP	10	0	4	14.00
PMI-ACP	0	0	4	4.00
PMI-SP	0	0	4	4.00
PMI-RMP	0	0	4	4.00
PfMP	0	0	4	4.00
PMI-PBA	3	0	4	7.00