Lean Six Sigma Yellow Belt for project managers Training Course

Professional Development Training Course Outline

Category	Project Management	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Lean Six Sigma Yellow Belt for Project Managers Training Course provides a structured and practical foundation in process improvement, operational excellence, and data-driven decision-making for project environments. The course introduces Lean principles, Six Sigma methodologies, waste elimination techniques, and basic statistical tools that enable project managers to improve efficiency, reduce variation, control costs, and enhance quality outcomes. Emphasis is placed on integrating Lean Six Sigma thinking into project planning, execution, monitoring, and stakeholder management to deliver consistent and measurable results.

In increasingly competitive and resource-constrained environments, project managers are expected to deliver faster, better, and more predictable outcomes. This course equips participants with proven improvement frameworks such as DMAIC, process mapping, root cause analysis, and performance measurement aligned with project management practices. Through structured modules, practical exercises, and real-world case studies, participants learn how to support continuous improvement initiatives, collaborate effectively with Green and Black Belt teams, and embed a culture of efficiency and quality within project-based organizations.

Programme Curriculum

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Course Objectives

1. Understand Lean Six Sigma principles and their relevance to project management.
2. Apply process improvement thinking to project planning and execution.
3. Identify waste and inefficiencies within project workflows.
4. Use basic Six Sigma tools for problem-solving and quality improvement.
5. Apply DMAIC methodology in project-based environments.
6. Improve project performance using data-driven decision-making.
7. Enhance stakeholder satisfaction through consistent delivery outcomes.
8. Use process mapping to visualize and optimize project activities.
9. Apply root cause analysis to recurring project issues.
10. Monitor project performance using key metrics and KPIs.
11. Support organizational continuous improvement initiatives.
12. Integrate Lean Six Sigma tools with traditional project management methods.
13. Build a foundation for advanced Lean Six Sigma certifications.

Organizational Benefits

- Improved project efficiency and reduced cycle times
- Reduced costs through waste elimination
- Enhanced quality and consistency of project deliverables
- Better visibility into project processes and bottlenecks
- Increased stakeholder confidence and satisfaction
- Stronger data-driven project governance
- Improved cross-functional collaboration
- Reduced rework and project delays
- Enhanced problem-solving capability across teams
- Stronger culture of continuous improvement

Target Audiences

- Project managers and project coordinators
- Program and portfolio managers
- Operations and process improvement professionals
- Quality assurance and performance managers
- Business analysts and change managers

- Engineering and technical project leads
- Public sector and development project managers
- Consultants supporting project delivery and improvement

Course Duration: 10 days

Course Modules

Module 1: Introduction to Lean Six Sigma

- Overview of Lean and Six Sigma concepts
- History and evolution of Lean Six Sigma
- Roles of Yellow, Green, and Black Belts
- Benefits of Lean Six Sigma for projects
- Alignment with organizational strategy
- Case Study: Project delays caused by unmanaged process waste

Module 2: Lean Thinking for Project Managers

- Principles of Lean in project environments
- Identifying value from the customer perspective
- Understanding flow and pull concepts
- Eliminating non-value-added activities
- Lean mindset for project teams
- Case Study: Improving project turnaround time using Lean principles

Module 3: Understanding the DMAIC Framework

- Define phase objectives and deliverables
- Measure phase and baseline data collection
- Analyze phase for problem identification
- Improve phase solution design
- Control phase sustainability methods
- Case Study: Applying DMAIC to a failing project milestone

Module 4: Project Process Mapping

- Introduction to process mapping techniques
- SIPOC diagrams for project scoping
- Swimlane diagrams for role clarity
- Identifying bottlenecks and delays
- Using maps to drive improvement discussions
- Case Study: Mapping a procurement process within a project

Module 5: Voice of the Customer in Projects

- Understanding internal and external customers
- Collecting customer requirements
- Translating needs into project specifications
- Managing scope creep through VOC
- Aligning deliverables with expectations
- Case Study: Misaligned stakeholder expectations in a project

Module 6: Identifying Waste in Project Processes

- Types of waste in project environments
- Overprocessing, waiting, and rework
- Communication inefficiencies and handoffs
- Resource underutilization
- Tools for waste identification
- Case Study: Waste reduction in a multi-department project

Module 7: Basic Data Collection & Measurement

- Importance of data in improvement projects
- Defining performance metrics
- Data collection plans for projects
- Qualitative versus quantitative data
- Data accuracy and reliability
- Case Study: Poor data quality affecting project decisions

Module 8: Root Cause Analysis Tools

- Problem statement development
- Cause-and-effect (fishbone) diagrams
- 5 Whys technique
- Pareto analysis for prioritization
- Linking causes to project risks
- Case Study: Repeated project delays traced to root causes

Module 9: Introduction to Variation and Quality

- Understanding variation in project outputs
- Common versus special cause variation
- Impact of variation on quality

- Basic control concepts
- Quality improvement in deliverables
- Case Study: Quality defects in project deliverables

Module 10: Improving Project Processes

- Brainstorming improvement ideas
- Evaluating solution feasibility
- Piloting improvements within projects
- Managing change during improvement
- Risk assessment of solutions
- Case Study: Process improvement pilot in a project team

Module 11: Controlling Improvements

- Standardizing improved processes
- Documentation and control plans
- Visual management techniques
- Monitoring performance metrics
- Preventing regression to old practices
- Case Study: Sustaining project improvements over time

Module 12: Lean Six Sigma Metrics for Projects

- Key performance indicators for projects
- Cycle time, cost, and quality metrics
- Dashboard reporting for managers
- Interpreting performance trends
- Using metrics for decision-making
- Case Study: KPI dashboard implementation for project tracking

Module 13: Team Engagement & Change Management

- Building improvement-focused project teams
- Managing resistance to change
- Communication strategies for buy-in
- Leadership roles in improvement initiatives
- Motivating teams through results
- Case Study: Resistance to process changes in a project

Module 14: Integrating Lean Six Sigma with Project Management

- Aligning Lean Six Sigma with PM frameworks
- Integrating with project life cycles
- Risk management and quality planning
- Governance and reporting alignment
- Benefits of integrated approaches
- Case Study: Successful integration of Lean Six Sigma in PMO

Module 15: Yellow Belt Application & Next Steps

- Yellow Belt roles and responsibilities
- Supporting Green and Black Belt projects
- Selecting improvement opportunities
- Documentation and knowledge sharing
- Preparing for further certification
- Case Study: Yellow Belt contribution to a major project turnaround

Training Methodology

- Instructor-led presentations and guided discussions
- Practical exercises and tool-based workshops
- Group problem-solving and team activities
- Real-world project-focused case studies
- Interactive simulations and role-play scenarios
- Action planning and application exercises

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.
f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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