



Lean Six Sigma Green Belt Blended Learning Program



Course Description

Lean Six Sigma (LSS) is a disciplined process improvement approach focused on reducing waste, increasing customer satisfaction, and reducing variability for improved profits... among many other benefits.

Green Belts are typically process managers / leaders who manage a couple of projects each year in their function-specific area of the organization while maintaining their regular work duties. The LSS Green Belt course artfully blends the tools of Lean with the rigorous DMAIC problem-solving methodology and statistical toolset.

Blended Learning

FLEXIBLE: Program can be taken 100% online or augmented with live classroom instruction.

FAST: Self-paced online learning and up to 50% less class time.

EFFECTIVE: Interactive modules and project simulations accelerate and cement learning.

ON-THE-JOB SUPPORT: Modules provide a quick-access job aid, as needed, when project challenges arise.



Certification

Certification recognizes understanding and ability to apply Lean Six Sigma knowledge. Certification is earned from TQG Master Champions, Academic Partners, or Distribution Partners.



Requirements

- A grade of 80% on e-Learning modules
- A passing grade of 80% on a final exam
- Active participation in all virtual sessions
- Successful completion of Capstone Project





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Standard Course Outline

(many blends/combinations are possible)



E-LEARNING MODULES

Pre-Class	TIME
Class Kick-off	
Session 1 - INTRODUCTION	
Six Sigma Introduction	
Introduction to Lean Principles*	3 hrs
Introduction to Lean Office and Service*	
Session 2 - DEFINE PHASE	
Managing the Project	
Kaizen Event*	3.5 hrs
Voice of the Customer	
SIPOC	
Mapping the Process	
Session 3 - MEASURE PHASE	
Eight Wastes*	4.5 hrs
Current State Value Stream Mapping*	
Future State Value Stream Mapping*	
Process-Based Costs	
What is Statistics?	
Organizing and Presenting Data	
Session 4 - MEASURE PHASE	
Pareto Analysis	4 hrs
Scatter Diagrams	
Measures of Central Tendency	
Measures of Dispersion	
Measurement System Analysis	
Session 5 - MEASURE/ANALYZE/IMPROVE PHASE	
Introduction to Process Capability	5 hrs
Process Capability Assessments	
Cause and Effect Diagrams	
Failure Mode and Effects Analysis	
Introduction to Design of Experiments	
5S*	
Visual Management*	
Error Proofing*	
Session 6 - IMPROVE/CONTROL PHASE	
Standard Work*	4 hrs
Total Productive Maintenance	
Workplace Design and Layout*	
Changeover Reduction	
Flow and Pull Systems*	
Selecting the Solution	
Control Charts	
Controlling the Process	

Each Virtual Class Session = 1.5 hrs (kickoff = 1 hr) Total Virtual time = 10 hrs

(*) denotes Healthcare Only version is available

Capstone Project	3 days
Certification Exam	2 hrs



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