



## 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		
<b>Session 1 - INTRODUCTION</b>		
Six Sigma Introduction		3 hrs
Introduction to Lean Principles*		
Introduction to Lean Office and Service*		
<b>Session 2 - DEFINE PHASE</b>		
Managing the Project		3.5 hrs
Kaizen Event*		
Voice of the Customer		
SIPOC		
Mapping the Process		
<b>Session 3 - MEASURE PHASE</b>		
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		
<b>Session 4 - MEASURE PHASE</b>		
Pareto Analysis		4 hrs
Scatter Diagrams		
Measures of Central Tendency		
Measures of Dispersion		
Measurement System Analysis		
<b>Session 5 - MEASURE/ANALYZE/IMPROVE PHASE</b>		
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*		4 hrs
Error Proofing*		
<b>Session 6 - IMPROVE/CONTROL PHASE</b>		
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

<b>Capstone Project</b>	<b>3 days</b>
<b>Certification Exam</b>	<b>2 hrs</b>



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