



# The International Society for Six Sigma Certifications, LLC

---

*Certified Training, Consulting & Mentoring  
LEAN Six Sigma and Process Management*

## Lean Green Belt Training Course Outline:

**MONDAY 9:00 AM – 4:00 PM**

**Morning Session**

Section I

- Intro
- What is Six Sigma?
- History
- Key Principles
- Types of Belts
- What is a Six Sigma System?
- Getting Buy-in
- Why do it?
- Examples of improvements
- Summary

Section III

- The Green Belt Methodology
- What are their assignments?
- What types of people should be selected?
- How do they work with the Black Belts?
- What is their Six Sigma Body of Knowledge?

Section III

- Leading a SST
- Team building

**Afternoon Session:**

Section IV

- Basic Tools
- Affinity Diagrams
- Brainstorming
- Cause-and-Effect Diagrams
- Cause-and-Effect matrix
- Check sheets
- Flow Charting
- Force Field Analysis
- Graphs
- Histograms
- Kano Model
- Nominal Group Technique
- Pareto Analysis
- Plan-Do-Check-Act
- Project Management
- Root Cause Analysis
- Scatter Diagrams
- 5Ss
- 5Ws
- 5Ws and 2Hs

**Day Two: 9:00 AM – 4:00 PM**

**Homework Review**

**Morning Session**

Section V

Six Sigma Software

Section VI

Statistical Tools for Green Belts  
Foundations of Probability and Statistics  
Understanding Variation  
Histograms  
Process Capability Studies (Cp & Cpk)  
Control Charts  
    X bar and R charts  
    P charts  
    np charts  
Correlation coefficient  
Cp/Cpk  
Normal and Abnormal distribution  
Probability concepts  
Sampling  
Sigma conversion table  
Statistical Process Control

**Afternoon Session:**

Section VII

What is DMAIC?

Section VIII

*Define* phases of this project  
Define key measurement  
SWOT (strength, weaknesses, opportunities, threats) analysis  
Defining goals  
Develop a project plan (WBDS)

**Day Three: 9:00 AM – 4:00 PM**

**Homework Review**

**Morning Session**

Section IX

*Measure* phase of the project

- measure performance and variability
- voice of the customer
- voice of the process
- define improvement opportunities
- stratification and prioritization
- data collection
- process walkthrough
- pick low hanging fruit

**Afternoon Session:**

Section X

*Analysis* phase of the project

- root cause analysis
- develop cause and effect hypothesis
- affinity diagrams
- define improvement options
- conduct a cost benefit analysis

**Day Four: 9:00 AM – 4:00 PM**

**Homework Review**

**Morning Session**

Section XI

*Improvement* phase of the project

- define improvement options
- conduct a cost benefit analysis
- get management approach
- define the implementation schedule
- train people effected
- understand organization
- establish performance standards
- understand the role of change agent
- implement the change and measure its impact

**Afternoon Session:**

Section XII

*Control* Phase of the Project

- create process control plans
- measure results
- identify other improvement opportunities

**Day Five: 9:00 AM – 4:00 PM**

**Homework Review**

**Morning Session**

Section XIII

Summary of Key Black Belt tools

Lean

DFSS

DMADV

**Afternoon Session:**

Section XIV TEST

Review

Section XV

TEST 50 to 75 Questions open book -2 Hours