



Consulting and Training | Reach New Heights

**Course Name**

# Six Sigma Green Belt

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**Sector Name**

Quality Management & Operational Excellence

**Document Type**

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## Six Sigma Green Belt

### Course Introduction

The Lean Six Sigma Green Belt program is a practical, intermediate-level training designed to enable participants to lead structured process improvement initiatives within their departments.

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## Six Sigma Green Belt

### Target Audience

- Engineers and senior technicians
- Supervisors and team leaders
- Production planners
- Quality engineers
- Process improvement and industrial staff

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## Six Sigma Green Belt

### Learning Objectives

- ✓ Apply Lean Six Sigma DMAIC methodology in real projects
- ✓ Analyze processes and identify waste and inefficiencies
- ✓ Use data to identify root causes of problems
- ✓ Improve process flow and reduce cycle time
- ✓ Implement sustainable operational improvements
- ✓ Lead departmental improvement initiatives within manufacturing environments

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## Six Sigma Green Belt

### Course Outline

#### ✓ DAY 01

##### **Define & Measure Phase (Foundation & Problem Framing)**

###### **Define Phase**

- ✓ Lean Six Sigma overview and project alignment
- ✓ Problem identification and project selection
- ✓ Business case development
- ✓ Voice of Customer (VOC)
- ✓ Critical to Quality (CTQ) mapping

###### **Process Understanding**

- ✓ SIPOC analysis
- ✓ High-level and detailed process mapping
- ✓ Identification of process boundaries

###### **Measure Phase**

- ✓ Data collection planning
- ✓ Identification of Key Performance Indicators (KPIs)
- ✓ Introduction to measurement systems
- ✓ Baseline performance assessment

## Practical Workshop

- ✓ Current state mapping for a real production process
- ✓ Initial problem framing exercise

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### Course Outline

#### ✓ Day 02

##### **Analyze Phase (Root Cause Identification)**

- ✓ Root cause analysis techniques
  - ✓ Fishbone (Ishikawa) diagram
  - ✓ 5 Whys technique
- ✓ Pareto analysis for prioritization
- ✓ Identifying process bottlenecks
- ✓ Waste identification (Lean 8 wastes)
- ✓ Data interpretation basics

##### **Workshop**

- ✓ Root cause analysis on real manufacturing case
- ✓ Prioritization of key improvement areas

## Six Sigma Green Belt

### Course Outline

#### ✓ Day 03

##### **Improve Phase (Solution Development & Lean Tools)**

- ✓ Generating improvement solutions
- ✓ Evaluating and selecting best solutions
- ✓ Lean improvement tools:
  - ✓ 5S implementation
  - ✓ Line balancing basics
  - ✓ Flow optimization techniques
- ✓ Kaizen concept and rapid improvement events
- ✓ Future State Value Stream Mapping

##### **Workshop**

- ✓ Designing improved process flow
- ✓ Building future state map for production line

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### Course Outline

#### ✓ Day 04

##### **Control Phase & Implementation (Sustainability & Execution)**

##### **Control Phase**

- ✓ Sustaining process improvements
- ✓ Standard Operating Procedures (SOPs) development
- ✓ Visual management systems
- ✓ Control plans

##### **Performance Management**

- ✓ KPIs monitoring and dashboards
- ✓ Basic statistical thinking (variation & stability)
- ✓ Introduction to process control concepts

##### **Risk & Quality Control**

- ✓ Basic FMEA awareness (Failure Modes & Effects Analysis)

- ✓ Risk identification in operations
- ✓ Change management in manufacturing environments

## **Implementation & Final Workshop**

- ✓ Implementation planning and action tracking
- ✓ Project closure steps
- ✓ Full DMAIC case study simulation (end-to-end application)

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### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 7, 2026	June 10, 2026	4 days	1950.00 \$	Virtual , Online

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