

# Lean Six Sigma Green Belt Program

*Extending the knowledge and skills gained during the Yellow Belt program*



Focus on: **The Manager** ☒ **The Specialist** ☒ **Spotlight Programme** ☐ **Hands-on Skills** ☐

## Course Overview

In Lean Six Sigma organisations, it is the Green Belts who lead and contribute to the majority of improvement teams undertaking the improvement projects that will make continuous improvement through Lean Six Sigma a key element of achieving and maintaining operational excellence.

Developed by industry giants like Motorola, General Electric, Honeywell, and Toyota, Six Sigma and Lean methodologies converge in this program to empower you with the skills to drive near-perfect products and services within your organisation.

This program builds on the learnings gained during the Yellow Belt program and provides participants with the level of knowledge and skill required to operate at the Green Belt level.

Course Objectives		This Course is Ideal For:	
1	A deep dive into each of the Define, Measure, Analyse, Improve and Control Phases of the DMAIC process;	✓	Executive-level managers
2	Process Improvement and Process Reengineering using the DMADV (Define-Measure-Analyse-Design-Validate) process;	✓	General managers
3	Thorough understanding of measurement and key data analysis technique aimed at understanding process performance, problem solving and root cause analysis;	✓	Middle managers
4	Working knowledge of the Failure Modes and Effects Analysis Technique;	✓	Engineers & Scientists
5	Statistical measurement and analysis techniques, including descriptive statistics, statistical distributions and hypothesis testing;	✓	Employees involved in Lean Six Sigma improvement projects

## Course Content

Day	Theme	Coverage
1	Introduction to the Green Belt Program and Define Phase - Deep Dive	<b>Introduction to the Green Belt Program</b> <b>Define Phase - Deep Dive</b> The Voice of the Business The Voice of the Customer The Voice of the Process Lean Define Techniques

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		<ul style="list-style-type: none"> <li>Value Stream Mapping</li> </ul> <p>Define Phase Tollgate Review</p>
2	The Measure Phase - Deep Dive	<p><b>Measures Phase - Deep Dive</b></p> <p>Determining what to Measure Data Collection and Sampling Understanding Measures Understanding Process Variation Process Capability and Sigma Levels Introduction to Statistical Process Control Measure Phase Tollgate Review</p>
3	The Analyse Phase - Deep Dive	<p><b>The Analyse Phase – Deep Dive</b></p> <p>Sources of Variation and Root Cause Analysis Structured Analytical Tools and Frameworks Data Analysis Process Analysis Verification Tools Failure Modes and Effects Analysis Analysing Intangible Problems Analyse Phase Statistical Methods Lean Analyse Methods</p> <ul style="list-style-type: none"> <li>The Lean Waste Reduction Model</li> <li>Genchi Genbutsu</li> <li>Kaikaku</li> <li>The 4 Rules of the Toyota Production System</li> </ul> <p>Analyse Phase Tollgate Review</p>
4	The Improve Phase - Deep Dive	<p><b>The Improve Phase - Deep Dive</b></p> <p>Generating Potential Solutions Solution Assessment and Selection Implementation Planning Implement and Check</p> <ul style="list-style-type: none"> <li>Lean Improve Methods</li> <li>5-S</li> <li>Standardised Work</li> <li>Visual Management</li> <li>Mistake Proofing</li> </ul>

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		<ul style="list-style-type: none"><li>• Kaizen</li></ul> Improve Phase Tollgate Review
5	The Control Phase – Deep Dive and Conclusion	<b>The Control Phase – Deep Dive</b> Process Management and Control System Statistical Process Control Acceptance Sampling Control Phase: Tollgate Review Conclusion The Path to Excellence
Course Assessment		Certification
<b>Participants will be assessed on:</b>		Upon successful completion of the course, participants will receive a <b>Certificate of Successful Completion</b> , along with a <b>Transcript of Marks</b> showing the performance by grade in each element of assessment and overall.
Participation in sessions		
Completion of exercises & case studies		
Performance in assessments		
Course Instructor		
<p>This speaker is a Management Educator and Consultant with extensive experience teaching MBA, Executive Education and Management Development Seminars and as a hands-on practitioner.</p> <p>He has worked all over with world from Australia to the US, the Middle East, the UK, Western Europe and Asia, and always with a focus on achieving Business and Operational Excellence.</p> <p>He is internationally recognised as a specialist in Operations Management and Business Performance Improvement, along with Statistical and Quantitative Methods, Project Management, Quality Management, Managing Innovation and e-Business.</p>		