

## LEAN SIX SIGMA INTRODUCTION TRAINING



**COURSE LENGTH: 1.0 DAYS**

The Lean Six Sigma Introduction Training course shows the participants the process improvement method that combines reduction of waste (Lean) and defects (Six Sigma) as the primary targets to improve productivity and lower costs.

The Lean Six Sigma (LSS) Introduction covers the following topics: working knowledge of process management and Lean Six Sigma, LSS terminology, Process Mapping and characterisation, control mechanisms and process monitoring methods, and other process improvement activities as future leader or member of an LSS team.

This comprehensive course is now available in London, Birmingham, Leeds, Glasgow, Sheffield, Bradford, Edinburgh, Liverpool, Manchester and UK wide.

Please click the In-House Training tab to receive a free quote for courses delivered at your preferred location.

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## LEAN SIX SIGMA INTRODUCTION TRAINING COURSE OUTLINE

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### FOREWORD

This course has been developed to enhance the knowledge and capability of people involved in the daily operation of business processes.

The goal of this training is to:

- Increase your knowledge of Process Management, Six Sigma and Lean techniques as Business Process Improvement methodologies.
- Increase your skills at improving the ease and performance of the processes in which you work.
- To gain an understanding of your role as a process team member for the achievement of business success.
- To select and improve one of the process you either own or work in.

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### OUTCOMES

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#### OBTAIN A WORKING UNDERSTANDING OF PROCESS MANAGEMENT, SIX SIGMA AND LEAN

- ▶ Know and apply the basic concepts
- ▶ Demonstrate use of the terminology

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#### COMPREHEND DAILY WORK AS A PROCESS-ORIENTED ACTIVITY

- ▶ Understand process inputs and outputs
- ▶ Understand process flow and know what determines value add vs. non-value add
- ▶ Understand how the processes you are a part of fit into the larger set of processes needed in delivering value to the customer

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#### PERFORM PROCESS MAPPING AND CHARACTERIZATION

- ▶ Create a detailed Process Map of a process you are personally involved in.
- ▶ Prioritize significant outputs from the process and quantify their level of performance to requirements.
- ▶ Identify inputs and their relationship to the significant outputs.

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#### PERFORM PROCESS IMPROVEMENT ACTIVITIES

- ▶ Improve a process you are personally involved in using Process Management, Six Sigma methods and Lean Principles to improve its performance.
- ▶ Continue to improve other processes.

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#### ESTABLISH CONTROL MECHANISMS AND MONITORING PROCESSES TO SUSTAIN AN EXISTING PROCESS AND/OR ANY IMPROVEMENTS YOU MAKE.

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### MODULES

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### Lesson 1: Understanding Lean

- ▶ About Six Sigma
- ▶ About Lean
- ▶ History behind Lean
- ▶ Toyota Production Systems
- ▶ The Toyota Precepts

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### Lesson 2: Liker's Toyota Way

- ▶ Philosophy
- ▶ Process
- ▶ People and Partners
- ▶ Problem Solving

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### Lesson 3: The TPS House

- ▶ The Goals of TPS
- ▶ The First Pillar: Just In Time (JIT)
- ▶ The Second Pillar: Jidoka (Error-Free Production)
- ▶ Kaizen (continuous improvement)
- ▶ The foundation of the house

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### Lesson 4: The Five Principles of Lean Business

- ▶ Value
- ▶ Value stream
- ▶ Flow
- ▶ Pull

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### Lesson 5: The First Improvement Concept (Value)

- ▶ Basic characteristics
- ▶ Satisfiers
- ▶ Delighters
- ▶ Applying the Kano Model

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### Lesson 6: The Second Improvement Concept (Waste)

- ▶ Muda
- ▶ Mura
- ▶ Muri
- ▶ The New Wastes

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### Lesson 7: The Third Improvement Concept (Variation)

- ▶ Common Cause
- ▶ Special Cause
- ▶ Tampering
- ▶ Structural

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### Lesson 8: The Fourth Improvement Concept (Complexity)

- ▶ What is complexity?
- ▶ What causes complexity?
- ▶ How to simplify?

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### Lesson 9: The Fifth Improvement Concept (Continuous improvement)

- ▶ The PDSA Cycle (Plan, Do, Study, Act)
- ▶ The DMAIC Method

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### Lesson 10: The Improvement Toolkit

- ▶ Gemba
- ▶ Genchi Genbutsu
- ▶ Womack's Principle
- ▶ Kaizen
- ▶ A Roadmap for implementation

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## WEB LINKS

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- ▶ [View this course online](#)