

Lean Six Sigma Training Course

Lean Six Sigma Training Course Outline

Foreword:

The last couple of decades small, mid-sized and Fortune 500 companies have embraced Six Sigma to generate more profit and greater savings. So what is Six Sigma?

Six Sigma is a data-driven approach for eliminating defects and waste in any business process.

You can compare Six Sigma with turning your water faucet and experiencing the flow of clean, clear water. Reliable systems are in place to purify, treat and pressure the water through the faucet. That is what Six Sigma does to business: treats the processes in business so that they deliver their intended result.

What is "Sigma"? The word is a statistical term that measures how far a given process deviates from perfection. Sigma is a way to measure quality and performance.

The central idea behind Six Sigma is that if you can measure how many "defects" you have in a process, you can systematically figure out how to eliminate them and get as close to "zero defects" as possible.

This workshop will give participants an overview of the Six Sigma methodology, and some of the tools required to deploy Six Sigma in their own organisations.

Lean Six Sigma Training Course - Lesson 1 **Understanding Lean**

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

Lean Six Sigma Training Course - Lesson 2 **Liker's Toyota Way**

- Philosophy
- Process
- People and Partners
- Problem Solving

Lean Six Sigma Training Course - 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

Lean Six Sigma Training Course - Lesson 4 **The Five Principles of Lean Business**

- Value
- Value Stream
- Flow
- Pull



Lean Six Sigma Training Course - Lesson 5

The First Improvement Concept (Value)

- Basic Characteristics
- Satisfiers
- Delighters
- Applying the Kano Model

Lean Six Sigma Training Course - Lesson 6

The Second Improvement Concept (Waste)

- Muda
- Mura
- Muri
- The New Wastes

Lean Six Sigma Training Course - Lesson 7

The Third Improvement Concept (Variation)

- Common Cause
- Special Cause
- Tampering
- Structural

Lean Six Sigma Training Course - Lesson 8

The Fourth Improvement Concept (Complexity)

- What is complexity?
- What causes complexity?
- How to Simplify?

Lean Six Sigma Training Course - Lesson 9

The Fifth Improvement Concept (Continuous improvement)

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





Lean Six Sigma Training Course - Lesson 10

The Improvement Toolkit

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

Lean Six Sigma Courses are delivered by **contract trainers'** Six Sigma training specialists in Brisbane, Sydney, Canberra, Melbourne, Adelaide and Perth.

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