

# Lean Six Sigma Black Belt Training



The LEAN 6 Black Belt training is an advanced Lean Six Sigma training program designed to provide an extensive knowledge in Lean and Six Sigma principles and further includes a comprehensive component of Change Facilitation. The program provides attendees with the skills to manage, champion and influence the outcomes of large strategic projects.

## Learning objectives

- Gain an extensive knowledge base of Six Sigma DMAIC 15-step process including DMAIC for new product implementation
- Develop a thorough understanding of the Lean concepts and tools and how to practically apply them in facilitating a Lean Action Workout
- Acquire the skills to facilitate an extensive Value Stream Mapping session
- Gain a strong understanding of Change Management principles and acquire the skills to engage stakeholders
- Develop the skills needed to manage large strategic projects and mentor team members and Green Belts
- Quality and business improvement resources
- Certified Lean Six Sigma Green Belts
- Senior management

## Duration

- 6 days  
(pre-requisite - Green Belt Certification)

## No. of attendees

- 8 - 10 per program

## Curriculum

### Six Sigma rigour

- Six Sigma DMAIC 15-step process
- Define – Critical to Quality customer requirements, managing project expectations
- Measure – Product characteristics and data
- Advanced Measure – Graphical analysis and Minitab/SigmaXL
- Analyse – Current process capability, sources of process variation
- Advanced Analyse - Graphical distributions, hypothesis testing & Minitab/SigmaXL
- Improve – Brainstorming tools, piloting proposed solutions within acceptable tolerances, risks analysis & management
- Control – Control charts, control management strategy
- DMAIC for new products – New product implementations using Six Sigma

**Excellence Through Learning**

## Curriculum

### Lean framework

- Lean overview
- Lean principles and foundation
- Understanding Value and creating flow within a process
- Value Stream Mapping – facilitating a VSM session
- Establishing a Lean Measurement System and delivering financial business benefits
- Creating a Future State
- Standard Work
- Creating efficient work cells
- Mistake Proofing
- 5S – Foundations of 5S and Visual management & control
- Kaizen and continuous improvement

### Implementing Change

- The Change transfer function
- The Change Management process
- Change Management toolkit
- Managing stakeholders and influencing change
- Sustaining the Change
- Lean versus Six Sigma
- Managing a Lean Action Workout
- Managing a DMAIC Six Sigma project
- Championing a Lean Six Sigma project
- Business Simulation

### Certification

- Certified Lean Six Sigma Practitioner™ – Black Belt certification will be issued to the Black Belt program participants who have successfully
  - passed the Black Belt knowledge test
  - completed two cross-functional business improvement projects using Lean Six Sigma framework and tools
- Certification awarded by the Australian Society for Quality

### Learning approach

- Our programs incorporate interactive sessions which include discussions, group activities, case studies and simulations to ensure that concepts and tools can be readily applied in the workplace

“

**Great facilitators...  
Used plenty of  
examples from their  
own experience**

”

Lean Six Sigma Black Belt  
Program Participant

“

**Many practical tools  
to learn and apply in  
real-life situations**

”

Lean Six Sigma Black Belt  
Program Participant

“

**Program flow was  
well done**

”

Lean Six Sigma Black Belt  
Program Participant

Partners:

