

# Lean Six Sigma Black Belt Training



The LEAN 6 Black Belt course is an advanced training program designed to provide an extensive knowledge in Lean and Six Sigma practices. The program includes a comprehensive Change Facilitation piece and provides participants with the skills to manage, champion, and influence the outcomes of large strategic projects. The pathway for entry into the program is completion of Green Belt training either with or without certification.

## Learning objectives

- Gain an extensive knowledge base of Six Sigma DMAIC 15-step process including DMAIC for new product implementation
- Develop an advanced understanding of 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 needed to successfully engage stakeholders
- Develop the skills required to manage large strategic projects and mentor team members and Green Belts

## Who should attend

- Quality and business improvement leaders
- Lean Six Sigma Green Belt holders
- Senior managers

## Learning Prerequisite

- Green Belt trained

## Duration

- 4 days

## No. of attendees

- 8 - 12 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 one large scale business improvement project 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:

