

CLASSROOM AND eLEARNING

# LEAN SIX SIGMA GREEN BELT



BROCHURE

## PROGRAMME INFORMATION

### DURATION

10 days classroom training  
6 months eLearning

### INTERNATIONAL CERTIFICATION

### CONTINUING EDUCATION UNITS (CEU'S)

10 CEU's (Standard Certification, Level 3)  
12 CEU's (Advanced Certification, Level 4)



CLASSROOM  
TRAINING

The DMAIC principles are trained over 2, 1 week sessions (10 days). The intention is to develop part time resources with good understanding of Six Sigma to support and assist Black Belts to run business improvement projects. The programme includes 6 months eLearning access with videos of our instructors, voice-over narrations, template toolkit, SigmaXL License, quizzes and an online exam for certification.

This course was developed by experienced Master Black Belts using real life data and values to ensure you can apply the tools practically in your work environment.



TRAINING,  
LEADERSHIP  
CONSULTING

*powered by*



The  
**Leadership**  
CENTRE  
DEVELOPING TOMORROW'S LEADERS

# LEAN SIX SIGMA GREEN BELT

Boost your career with our Lean Six Sigma Green Belt certification:

Solve complex problems, limit defects and variability in your processes by applying the DMAIC (Define, Measure, Analyse, Improve and Control) method.

Learn how to apply skills in project management, process management, Lean, change management and statistical analysis.

Our Lean Six Sigma Green Belt eLearning programme is delivered through TLC's state-of-the-art, interactive, flash, video and audio eLearning system—complete with engaging visual content, simulations, real-world case studies and progressive learning stages that are controlled by tollgates where you must complete quizzes to progress to the next phase and to the comprehensive exams.

This course was developed by experienced Master Black Belts using real life data and values to ensure you can apply the tools practically in your work environment.

## COURSE INCLUDES:

- 10 days classroom training
- 6 months access
- Lean Six Sigma Green Belt eBook per phase
- Lean Six Sigma Green Belt Six Sigma template toolkit
- Instructor-led videos
- Voice-over narrations
- Simulated project
- SigmaXL license
- Online quizzes
- Online exam per phase
- International certification



Lean Six Sigma is the international standard for business process improvement. It is a methodology and **powerful set of tools** that improves performance by removing waste and reducing variation and defects in a process.



## LEARNING OBJECTIVES:

On completion of this eCourse, you will be able to:

- Explain the Lean Six Sigma DMAIC (Define, Measure, Analyse, Improve, Control) methodology
- Determine the Voice of the Customer (VOC)
- Translate the VOC to Critical to Quality measures (CTQ)
- Select, Scope, define and lead Lean Six Sigma projects
- Evaluate and Close out projects upon completion
- Propose project to instructors, peers, managers and senior leadership
- Apply methods learned in the DMAIC process to business issues
- Apply statistical analysis to determine the relationship between key inputs and process outputs

## COURSE BREAKDOWN:

### Phase 1: INTRODUCTION

Lesson 1.1: What is Lean and Six Sigma

### Phase 2: DEFINE

*The Define phase is where you learn to understand your customer, define and scope your problem.*

Lesson 2.1: Introduction  
Lesson 2.2: VOC to CTQ's  
Lesson 2.3: Project Charter

### Phase 3: MEASURE

*This is the phase where you look at the evidence and measure the problem.*

Lesson 3.1: Introduction  
Lesson 3.2: Process Mapping  
Lesson 3.3: Basic Stats Part 1  
Lesson 3.4: Process Capability  
Lesson 3.5: Identifying inputs  
Lesson 3.6: Screening inputs  
Lesson 3.7: Data Collection Methodology

### Phase 4: ANALYSE

*This is the phase where you discover the root causes.*

Lesson 4.1: Introduction  
Lesson 4.2: Plan for Analyse  
Lesson 4.3: Displaying Data  
Lesson 4.4: Statistical Tools  
Lesson 4.5: Correlation and Regression  
Lesson 4.6: Analyse Process '8 Types of Waste'  
Lesson 4.6: Analyse Process 'Analyse Process Constraints'  
Lesson 4.6: Analyse Process 'Value Add and Non-Value Add'  
Lesson 4.6: Analyse Process 'Validate Root Causes'

### Phase 5: IMPROVE

*This is the phase where you implement solutions.*

Lesson 5.1: Introduction  
Lesson 5.2: Creating Ideas  
Lesson 5.3: Creating and Prioritising Solution  
Lesson 5.4: Lean Tools  
Lesson 5.5: Risk Assessment  
Lesson 5.6: Implementing Plan

### Phase 6: CONTROL

*This is the phase where you sustain the improvement.*

Lesson 6.1: Introduction  
Lesson 6.2: Control Charts and SPC  
Lesson 6.3: Control Plan  
Lesson 6.4: Error Proofing and Behavioural Controls  
Lesson 6.5: Handover Solution  
Lesson 6.6: Sustain Changes

### TOOLKIT

From our experience we have assembled a Lean Six Sigma Toolkit. This toolkit assists practitioners in keeping focus on their project work and not creating "templates". The Toolkit includes templates for each phase of the Lean Six Sigma DMAIC methodology.

#### Template Toolkit Includes:

- CTQ Chart
- Dashboard Measurement Plan
- Data Collection Plan
- DMAIC Project Plan
- 5 Why's
- FMEA
- Force Field Diagram
- Implementation Plan – Detailed
- Implementation Plan – High Level
- Define Tollgate Presentation
- Measure Tollgate Presentation
- Analyse Tollgate Presentation
- Improve Tollgate Presentation
- Control Tollgate Presentation
- Pilot Plan
- Process Monitoring Plan
- Process Value Analysis
- Project Charter
- Project Storyboard
- Quick Win Identification
- Response Plan
- Sigma Calculation
- SIPOC
- Solutions Benefits & Implications
- Solutions Prioritization Matrix
- Solutions Selection Matrix
- Stakeholder Identification
- Stakeholder Management Plan
- Stakeholder Map
- Standardised Procedures
- Team Meeting Agenda
- Team Profile
- VOC Research Plan
- X/Y Matrix

## LEAN SIX SIGMA GREEN BELT ROADMAP



### CERTIFICATION

There are 2 options for certification:

#### Standard Certification (Level 3) 10 CEU's:

Complete all assignments, pass each phase of the online exam with 80%, complete your simulated project.

#### Advanced Certification (Level 4) 12 CEU's:

Complete all assignments, pass each phase of the online exam with 80%, complete one workplace improvement project.

### ACCREDITATION

The Leadership Centre is accredited by the International Association for Continuing Education and Training (IACET). The Leadership Centre complies with the ANSI/IACET Standard, which is recognized internationally as a standard of excellence in instructional practices. As a result of this accreditation, The Leadership Centre is authorized to issue the IACET CEU.

As an IACET Accredited Provider, The Leadership Centre offers CEUs for its programs that qualify under the ANSI/IACET Standard.



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## GET IN TOUCH

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Should you have any queries, please contact us.

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## HAPPY LEARNING

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The TLC Team

