

# Lean Six Sigma Black Belt Workshop

Background and Our Approach

The Clarico Group Inc.

[www.claricogroup.com](http://www.claricogroup.com)

## **Lean Six Sigma Black Belt Training Course - 10 days**

Lean Six Sigma Black Belt is the required certification level for many senior management posts in the world today. Lean Six Sigma Black Belts are capable of transforming the business they work in by saving costs, improving quality and implementing major change.

Our Black Belt certification training course is recognised as effective in changing people and businesses, to make them more productive and effective. Utilising the DMAIC approach we use different learning styles to train you to remove waste and cost from your business, improve productivity, reduce variation in your processes, focus on customers and improve quality.

### **Course Objectives**

At the end of the Six Sigma Black Belt Training Course you will be able to:-

- Improve a business and processes using DMAIC problem solving methodology across any function in a business
- Apply Lean and Six Sigma principles, tools and techniques and explain the concepts to others
- Lead Lean Six Sigma improvement teams to solve complex multi-functional problems
- Understand and implement change in a business
- Apply and understand the voice of the customer in all areas of business
- Collect and analyse data statistically to improve decision making
- Develop and implement solutions and ensure problems are solved permanently saving time, effort, money and heartache using advanced Lean Six Sigma methodologies
- Certify as a Six Sigma Black Belt opening up the world of Six Sigma on your CV
- Act as Six Sigma ambassadors for any business

### **Certification**

Certification is included in the price of the course. You will be required to complete an open book exam (this takes place on the final day of the course), and submission of two completed Black Belt level projects.

### **Course Content & Structure**

The Lean Six Sigma Black Belt training course utilises every learning style to ensure total learning including – lectures, group exercises, simulations, case studies, video clips, games and discussions. The course covers not only Six Sigma techniques through discussion of each of the DMAIC steps but also covers many change management skills essential to make you a 100% effective Black Belt.

### **Module 1: Introduction**

- Introduction to Lean Six Sigma - history, terminology, explanations

- Philosophy, Structure and roles in Lean Six Sigma
- Overview of the stages of Lean Six Sigma - DMAIC
- Certification and project set up
- Gate review process

## **Module 2: Define Phase**

- Define phase overview
- Understanding Customers – VOC, CTQ
- Problem Statements & Goal Statements
- Process Thinking, SIPOC, Scope
- Team Creation, RACI and communications planning
- Stakeholder analysis
- Project Charters explained
- Project Planning, Risk Assessment, Project Launch, Project Folder

## **Module 3: Measure Phase**

- Measure phase overview
- Process Mapping
- Brainstorming – identifying all potential causes – C&E
- Types of data
- Sampling Concept
- Data collection planning
- Basic stats
- Central Tendency
- Variation
- Graphical displays – Histograms, dot plots, box plots etc
- Normal Distributions
- Introduction to Minitab

- Measurement systems analysis and Gauge R&R
- Process capability
- Control charts

#### **Module 4: Analyse Phase**

- Analyse phase overview
- Confidence intervals
- Hypothesis testing
- Regression and correlation
- T tests
- ANOVA
- Chi squared
- Design of Experiments
- Normality testing
- Non parametric testing

#### **Module 5: Improve Phase**

- Improve Phase overview
- Generating solutions and creative brainstorming
- Lean Thinking & Lean Tools
- Standardisation
- Evaluating and selection solutions – Decision matrix, Pugh Matrix, etc.
- Pilot testing

#### **Module 6: Control Phase**

- Control Phase overview
- Control plans
- Saving calculation – Cost of non-quality

- Project close out / handovers
- DMAIC summary
- Exam

#### **Module 7: Project & Change Management**

- A roadmap to leading change
- Project management

Price: Contact us at [workshops@claricogroup.com](mailto:workshops@claricogroup.com) for an onsite or offsite quote.

**ENABLE  
EDUCATE  
ENLIGHTEN**



### **About Us**

The Clarico Group puts ourselves in your shoes, listens and accurately grasps your needs, issues and problems. Then we help you to succeed by delivering any combination of our Clarico Client Trilogy.

#### **Client Option #1 – We Enable by Doing or helping to do what you need to succeed**

Our consultants deliver results for you by working on your behalf, running programs or projects for you or just being part of your teams, to make the best happen for you by planning and executing at strategic, tactical and operational levels. We help your teams make better, more creative decisions and, most importantly, actually execute on them.

#### **Client Option #2 – We Educate Using Workshops to educate you as to how and what you need to succeed**

Before, during or after our consulting work for you ... it's your choice ...we make sure that there's knowledge and skills transfer. We innovate, design and build interactive workshops, eLearning and classroom training MENTO. The right concept. The right message. The right media. At The Clarico Group we customize and integrate traditional and new media.

#### **Client Option #3 – We Enlighten by providing you with how-to media to guide your success.**

We provide our clients with the best book, audio and video media and references to allow you to enable your success for yourself.

#### **Contact us:**

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