



IEOM Society

"Achieving and Sustaining Operational Excellence"

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WORK BASED TRAINING PROGRAM

LEAN SIX SIGMA GREEN BELT



SCQE

Date : APRIL 12-13 2016
Location : Sofitel, Rabat Morocco
Target group : OPEN

Certification:

- *Certified LSSGB- IEOM International, USA*
- *Certified LSSGB– Accredited by IRQAO (International Registered of Quality Assessed Organization, UNITED KINGDOM)*
- *Panel Examiner from International Society for Cost and Quality Engineer*

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WELCOME TO LSSGB

WORK BASED TRAINING COURSE

COURSE INTRODUCTION

CERTIFIED LEAN SIGMA GREEN BELT (LSSGB) professional program are the cross-functional change agents who apply the Lean and Six Sigma methodology to develop innovative solutions to real business issues and problems that will yield dramatic improvements to profitability, increased customer satisfaction and market share.

The rigorous 2 days structured training and coaching with assignment on-the job project, is designed to develop experts with an simplify skills of the Lean and Six Sigma concepts, methods and tools that are necessary to eliminate waste.

Lean Sigma Green Belt professional program follows an Explain-Practice-Apply-Review learning cycle through application of improvement project for each trainee. Upon completing of training, participants immediately apply concepts and tools taught in training to their real-time improvement projects.

With a pre-allocated project as a key pre-requisite, the trainee can apply, practice and review the methods and tools learned in the instructional sessions. Each trainee is required to demonstrate the use of these methods and tools in the project reviews for certification purposes

ASSESSMENT OF LEAN SIGMA GREEN BELT






Submission of 1 assignments (Work based – Lean Six Sigma Project paper)

Upon passed Examination

COURSE OBJECTIVES

Course Objectives of a LSSGB

The objective of LSSGB training program is to develop effective practitioners of the Lean methods and tools that are necessary to execute an lean improvement project. With this knowledge and skills, Lean expert will be able to:

-  Identification and implementation of improvement projects.
-  Effectively lead team to complete projects within their departments.
-  Apply Lean Six Sigma methods and tools.
-  Acquire practical and working knowledge of process improvement and control
-  Actively involved in lean six sigma A3 reporting requirements.

COURSE OUTLINE

DAY 1

| |
|------------------------------------------------------------------------------------|
| Introduction 01_Agenda |
| 02_ Why Six Sigma-19 |
| DMAIC Overview 03_DMAICOV-10 |
| Define: Charter 04_BusCase |
| 1. Case study (Read & develop Charter) |
| Define: SIPOC 05_VSM_SIPOC |
| Define: VOC and CTQ 06_VOC- 7 Kind of Waste |
| 2. VOC + SIPOC + CTQs using Case Study |
| Measure Overview 07a_DataColl-LeadTime |
| 3. Case Study (Cause & Effect Diagram) |
| MEASURE |
| 4. Case Study - Basic Stats |
| Data Collection: Stratification and Operational Definition 07c_DatColl |
| Sampling 08_Sampling |
| MSA (Continuous measures) 09_MSValidation |
| 5. Case Study - MSA |
| Patterns in data (Time plots/Control Charts) 10a_PatDat |
| Patterns in data (Freq. Plots, Pareto Charts)) 10b_PatDat |
| 6. Case Study - Data display and Value Stream Mapping |
| Process Capability - Normality, Probabilities, Sigma Method 1&2, Cp/CpK 11_ProcCap |
| 7. Case Study - Process Capability |
| Lean Process Door vs. Data Door 12_ProcDataDoor |
| 8. Case Study - Fishbone, |
| Organizing causes 13_Organize Causes |
| Presentations |

DAY 2

| |
|------------------------------------------------|
| Hypothesis Testing (Overview, t-test) |
| 9. Case Study - F-test and T-test |
| Hypothesis Testing (ANOVA) |
| 10. Case Study - ANOVA |
| Hypothesis Testing (Chi-Sq) |
| 11. Case Study - Chi-square |
| Hypothesis Testing (Review) |
| Regression Analysis 05_Regression |
| 12. Case Study - Regression Analysis |
| Improve Overview 08_ImproveOV |
| Managing Risk |
| Implement Solutions |
| Process Management and Change Control |
| Standardization and Documentation |
| A3 Reporting |
| 13. Case Study - Monitor Results |
| Evaluate Results |
| Key Learning Points |
| Control Review |
| 14. DMAIC Review - Case Study Evaluate Results |
| Briefing on Assignment |
| LSSGB Examination |

LSSGB COACH

**Edly Ramly,
Lean Six Sigma Master Black Belt
Certification Director
EFR Certification**

Presently Mr. Edly is Certification Director and Lead Auditor for various certification schemes including ISO/TS16949 for EFR Certification and AFNOR Certification, France. Apart from auditing, he is currently providing Lean, Business Excellence, Quality (ISO9001 and ISO/TS16949), Environment (ISO14001) and Safety (OHSAS18001) management system related consultancy, research and trainings to local and multi-national companies that seek operational improvement and breakthrough improvement.

His industrial experience was in the automotive industry. During his stayed with the TRW Automotive, he was Six Sigma Black Belt and Lean Promotion Officer tasked with the responsibility of promoting and implementing Lean (Operational Excellence) and Six-Sigma within the Organization. Due to his extensive exposure in Lean and Six-Sigma, he was invited by Malaysia Productivity Corporation (MPC) and Asia Productivity Organization (APO) to conduct training in the area of Lean and Six-Sigma implementation.

Mr. Edly Ramly graduated from University of Bradford, UK with Bachelor Degree in Manufacturing System with Management. He then furthered his studies at Sheffield Hallam University, UK and awarded with a Master Degree of Science in Engineering with Management.