



WORK BASED TRAINING PROGRAM

LEAN SIGMA BLACK BELT

1 MALAYSIA GRIP PROGRAMME



- Date : 21-23, 28-30 JANUARY 2016
- Location : DE'PALMA HOTEL SHAH ALAM
- Fees : **RM3900.00** - COVER BY GOVERNMENT (1MGRIP Programme) - with Term and Condition.
- Target group** : **1. Open for employer registered or unregistered with HRDF**
2. Registered with SSM

For further detail and Registration kindly contact:

Miss Rokiah binti Abu Hassan (012)7028331

rokiah@efrcertification.com

Miss Harni binti Kasah (012)7138331

harni@efrcertification.com

Certification:

- *Certified Quality Inspector – Accredited by IRQAO (International Registered of Quality Assessed Organization, UNITED KINGDOM)*

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WORK BASED TRAINING COURSE

COURSE INTRODUCTION

CERTIFIED LEAN SIGMA BLACK BELT (LSBB) professional program are the cross-functional change agents who apply the Lean 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 6 days structured training, coaching and on-the job project, is designed to develop experts with an in-depth understanding cum skills of the Lean concepts, methods and tools that are necessary to eliminate waste.

Lean Sigma Black Belt professional program follows an Explain-Practice-Apply-Review learning cycle one application 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 BLACK BELT

Submission of 3 assignments (Work based - Project paper)

Upon passed Examination



COURSE OBJECTIVES

Course Objectives of a LSBB

The objective of LSBB 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 Sigma methods and tools.
- 👉 Acquire practical and working knowledge of process improvement and control
- 👉 Actively involved in lean blitz kaizen workshop requirements.

COURSE OUTLINE

Module 1: Change Management

Module 2: Improvement Diagnostic

Module 3: Performance Metrics

Module 4: DMAIC Improvement steps

Module 5: Value Stream Mapping (VSM)

Module 6: Set-up Reduction

Module 7: Error Proofing

Module 8: Visual Management

Module 9: Total Productive Maintenance (TPM)

Module 10: Layout Optimization

Module 11: Pull Systems

Module 12: Theory of Constraints

COURSE CONTENTS/ ACTIVITY: LEAN SIGMA BLACK BELT (LSBB)

No	CONTENTS/ ACTIVITIES	OBJECTIVES	OUTCOMES	HOURS
1	Module 1 Change Management	The People process of Lean Sigma. Candidates are introduced to the concepts of change management, stakeholder analysis, project charters, communication plans and how to engage team members	Skill to introduce improvement activities	4
2	Module 2 Improvement Diagnostic	This interactive simulation takes participants through a Lean re-engineering process. The process includes all of the tools of the Lean Sigma tool kit and business returns. Diagnostics are to get the candidate to start to see the big picture. The scope of their responsibilities is expanded to understand the business aspects of improving the speed and predictability of the supply chain.	Grasp on diagnostic techniques and benchmarking for improvement	8
3	Module 3 Performance Metrics	Introduction to the definition and assignment of metrics that reflect speed, flexibility and capital leverage. The metric discussion utilizes a comparative approach. This module also includes a case study to apply the metrics taught.	Improve on baseline and target setting for improvement projects especially in Sigma and Lean metrics	4
4	Module 4 DMAIC Improvement steps	To introduce the 5 steps of complete improvement cycle using DMAIC techniques	Skill to conduct improvement activities	8
5	Module 5 Value Stream Mapping (VSM)	Process mapping technique to capture all macro process steps, cycle time, improvements and ratio of value add to non-value added time.	Skill to define project using VSM	8
6	Module 6 Set-up Reduction	Set-up Reduction is one of the processes of increasing earned hours The learning environment includes classroom, simulations and factory	Ability to increase flexibility and	4

No	CONTENTS/ ACTIVITIES	OBJECTIVES	OUTCOMES	HOURS
		experiences	changeover when and where needed	
7	Module 7 Error Proofing	Introduction of Shingo Shigeo zero defect techniques	Ability to select appropriate techniques to prevent defects	<u>4</u>
8	Module 8 Visual Management	Module includes standardization work, visual management and 5S. Goal here is to provide tools that communicate or eliminate possibility for waste	Ability to introduce standardization especially on final step of DMAIC	<u>4</u>
9	Module 9 Total Productive Maintenance (TPM)	TPM is the last element taught to increase earned hours on equipment. TPM is use to prevent downtime on machine and improve the predictability of output.	Increase skill in asset management	<u>4</u>
10	Module 10 Layout Optimization	The layout module is designed to get the student to explore distance travelled and its impact on the speed metrics. Introductions to ways to improve layout or diagnose the issues associated to layouts are highlighted	Able to design the most optimum office, production layout	<u>4</u>
11	Module 11 Pull Systems	This is the first of the flow control modules. The use of pull systems is demonstrated using Kanban techniques that create synchronization in the supply chain.	Skill to control stock using the Kanban system that minimised the stock keeping	<u>4</u>
12	Module 12 Theory of Constraints	The final flow control techniques that are taught in LSBB. This is taught by using the interactive simulation, as well as bottleneck identification and constraints leverage. The point of view of this module is to engineer a solution that improves the overall supply rather than a functional area	Ability to manage the work bottleneck and solve the bottleneck issues	<u>4</u>