



# LSS BLACK BELT CERTIFICATION

PREPARED BY





# THE IMPORTANCE OF LEAN SIX SIGMA CERTIFICATION



A brief look-up at the history of Six Sigma gives you an idea on the benefits of its use to a business enterprise. Since its beginning in the early 80s where Motorola introduced it to their business process, the impact of Six Sigma on its bottom line has helped many enterprises to adopt by businesses across industry verticals. Learning Six Sigma and applying its methodologies in your work life can help you to stand apart from the crowd and brings a greater impact to the business as well. Having Six Sigma certification on your resume sets you apart from your uncertified counterparts and demonstrates your business acumen and analytical skills. A certified Six Sigma Black Belt professional is one who has comprehensive knowledge on Six Sigma philosophies and principles, with supporting systems, and tools. A Black Belt credential holder is a leader who understands team dynamics, knows proper role delineation and responsibilities. In fact, they have comprehensive understanding of DMAIC model that is in accordance with Six Sigma principles.



# LEAN SIX SIGMA WITH TEN X

- RPM Academy accredited certification training
- Blended learning method (Online Self-Paced Learning + Classroom Training)
- Six Sigma Black Belt expert trainer
- Access to portal and online course material 24/7
- Interactive sessions with case studies
- Six Sigma Black Belt practice tests with detailed answers and explanations
- Exam fees included in the training course
- Class schedule made available 30-Days in advance
- Instructor-led training that is always on schedule
- Sigma-XL for Projects/Coursework inclusive of the course fee
- Online Coach available for Q&A via online portal
- Discount vouchers to sign-up with other Ten-X certifications



# ADVANTAGES OF LEAN SIX SIGMA BLACK BELT CERTIFICATION

## Better Execution

Six Sigma links strategic initiatives to operational improvements to create efficiencies for your business.

## Build Customer loyalty

Six Sigma helps to target your customer needs so you can improve the things that matter most to your customers.

## Create Greater Returns

Six Sigma helps to lower the operational costs and reduce the turnaround time in delivery of products and services to bring about higher customer satisfaction.

## Certifies your Talent

The Six Sigma Black Belt credential is proof that you have the experience and skills to deliver quality service that matches customer expectations.

## Improves your work performance

Professionals with Six Sigma Black Belt credentials earn close to ~USD 120,000 with global opportunities.

## Opens Doors

A Six Sigma Black Belt credential can get you access to globally renowned companies of your choice.

## Applies Everywhere

Six Sigma Black Belt certification is based on achieving excellence while providing quality services. The concepts and techniques can be adapted to any real-world challenge across industries, market segments and geographies.





## ABOUT TEN X

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The Ten X Group is a unique organization which tackles the overall improvement of the Employee Experience across Malaysia. We pride ourselves in providing employees with affordable solutions towards certification attainment. Besides advocating below market priced Lean Six Sigma blended learning methods which allows our attendees to have access to the online course modules 24/7 - we also promise you access to our online coaches coupled with classroom trainings with our certified LSS trainers. Ten-X's goal is to achieve excellence and quality through designing a better employee experience.

## WHO SHOULD ATTEND?

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- Engineers / Professionals / Executives who want to understand Six Sigma as a management tool for process and performance improvement at their work place
- Managers, Project Leaders, Senior Engineers, Black Belt Candidates and anyone who desires an understanding of Six Sigma principles and skills - (Industries/Job Type: Customer Service, Industrial, Service, Hospitality, Management, Senior Management)
- Also production managers, front line supervisors, quality professionals, and individuals who are responsible for improving quality and processes at an enterprise or departmental level, including champions and process owners





# ELIGIBILITY OVERVIEW

Six Sigma Black Belt certification training course is beneficial for managers, quality professionals, engineers and technical staff with a minimum of 2-years' work experience or/and anyone who would like to take up a more senior position within their organization. To take up the Six Sigma Black Belt Certification Training, professionals should have completed their Six Sigma Green Belt Certification.





## COURSE CONTENT

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Introduction to Lean  
Introduction to Six Sigma  
Writing Effective Problem Statements  
Introduction to Kaizen  
Using A3 Report for Rapid Improvement  
SIPOC Mapping  
Understanding & Implementing 5S/6S  
Implementing & Facilitating Lean "Huddles"  
Visual Workplace  
Standard Work  
Mapping the Process  
Spaghetti Diagrams  
Gemba (Waste) Walks  
Failure Modes & Effects Analysis  
Error-Proofing/Mistake-proofing  
Controlling the process  
Assessing the Process Capability  
Constructing the Project Charters  
Managing Change  
Brainstorming, Affinity Diagrams & Team Voting  
Cause & Effect Diagrams & The Five Whys  
Pareto Charts & the 80/20 Rule  
Value Stream Mapping  
Kanban & Material Management  
Work Leveling/Load Balancing  
Work Cell Design & Improved Office/Facility Layout  
Rapid Changeover Techniques/SMED  
Total Productive Maintenance (TPM)  
Process control plans & Control charts  
Introduction to Basic Statistics  
The Normal Distribution  
The Standard Normal (Z) Distribution



# COURSE CONTENT

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Testing for Normality

Graphical Analysis- The Histogram

Graphical Analysis- The Boxplot

Graphical Analysis - The Scatter Plot

Lean Deployment Strategy and MethodsLean and

Green: The Environmental Benefits

Central Limit Theorem and Confidence Intervals

Introduction to Hypothesis Testing

Data Collection and Sampling

MSA - Gauge R & R Studies

MSA - Attribute Agreement Analysis

Process Capability Measures - Discrete

Process Capability Measures - Continuous

Correlation and Simple Linear Regression

Discrete & Continuous Probability Distributions

Hypothesis Testing - Mean and Median

Test for Equal Variance

Analysis of Variance (ANOVA) and ANOM

Proportion Testing

Chi-Square Analysis

Voice of the Customer - Kano Analysis

Voice of the Customer - Net Promoter Score

Voice of the Customer - Advanced Analysis

Use of Data Transformation in Analysis

Introduction to Logistic Regression

Introduction to General Linear Models (GLM)

Introduction to Reliability Life Data Analysis

Introduction to Design of Experiments (DOE)

Introduction to Design for Six Sigma





## COURSE PACKAGES

**RM 5799**

### LSS Black - Package XL



ACCESS TO LEARNING  
MANAGEMENT SYSTEM

12 MONTHS ACCESS TO  
ONLINE MODULES AND  
LEARNING MATERIALS



5-DAY WEEKEND  
CLASSROOM TRAINING  
WITH MASTER BLACK BELT  
TRAINER

ONLINE BASED EXAM WITH  
E-CERTIFICATION ONLY &  
GRADUATION CEROMONY



FULL PERPETUAL LICENCE  
TO SIGMA XL PROCESS  
TOOL



**RM 5599**

### LSS Black - Package X



ACCESS TO LEARNING  
MANAGEMENT SYSTEM

12 MONTHS ACCESS TO  
ONLINE MODULES AND  
LEARNING MATERIALS



5-DAY WEEKEND  
CLASSROOM TRAINING  
WITH MASTER BLACK BELT  
TRAINER

ONLINE BASED EXAM WITH  
E-CERTIFICATION ONLY &  
GRADUATION CEROMONY



30 DAY ACCESS TO SIGMA  
XL PROCESS TOOL





## COURSE PACKAGES

**RM 5399**

### LSS Black - XL Contact



ACCESS TO LEARNING  
MANAGEMENT SYSTEM

12 MONTHS ACCESS TO  
ONLINE MODULES AND  
LEARNING MATERIALS



10 VIRTUAL CLASS  
TRAINING WITH MASTER  
BLACK BELT TRAINER

ONLINE BASED EXAM WITH  
E-CERTIFICATION ONLY



FULL PERPETUAL LICENCE  
TO SIGMA XL PROCESS  
TOOL



**RM 5199**

### LSS Black - X Contact



ACCESS TO LEARNING  
MANAGEMENT SYSTEM

12 MONTHS ACCESS TO  
ONLINE MODULES AND  
LEARNING MATERIALS



10 VIRTUAL CLASS  
TRAINING WITH MASTER  
BLACK BELT TRAINER

ONLINE BASED EXAM WITH  
E-CERTIFICATION ONLY



NO ACCESS TO SIGMA XL  
PROCESS TOOL





## COURSE PACKAGES

**RM 4099**

### LSS Black - Self- Paced XL



ACCESS TO LEARNING  
MANAGEMENT SYSTEM

12 MONTHS ACCESS TO  
ONLINE MODULES AND  
LEARNING MATERIALS



100% SELF-PACED  
LEARNING AT YOUR OWN  
TIME

ONLINE BASED EXAM WITH  
E-CERTIFICATION ONLY



FULL PERPETUAL LICENCE  
TO SIGMA XL PROCESS  
TOOL



**RM 3899**

### LSS Black - Self- Paced X



ACCESS TO LEARNING  
MANAGEMENT SYSTEM

12 MONTHS ACCESS TO  
ONLINE MODULES AND  
LEARNING MATERIALS



100% SELF-PACED  
LEARNING AT YOUR OWN  
TIME

ONLINE BASED EXAM WITH  
E-CERTIFICATION ONLY



NO ACCESS TO SIGMA XL  
PROCESS TOOL



**THANK YOU!**

**theTen X group**

Designing lifestyles



**CALL US AT 1700-81-XTEN  
(9836)**