

# LEAN SIX SIGMA YELLOW BELT CERTIFICATION

by

School of Mechanical Engineering  
Universiti Sains Malaysia



# INTRODUCTION

Get Your Lean Six Sigma Yellow Belt Certification Now! Boost your career and make a difference in your company with our Lean Six Sigma Yellow Belt Certification program.

🚀 Enhance Job Performance, 🌱 Foster Continuous Improvement, 📄 Ten Modules, 🧠 Hands-On Practice, 🏆 Recognized Certification.

Don't miss this chance to elevate your career. Enroll now!

## EXPECTED OUTCOMES

Upon completion of the program, participants will be able to:

- Grasp Lean management principles.
- Identify and reduce workplace waste.
- Utilize visual management for efficiency.
- Apply PDCA for problem-solving.
- Foster a continuous improvement culture.

## MODULES

<div><div></div><div><div>ENGINEERING CAMPUS</div><div>SCHOOL OF MECHANICAL ENGINEERING PUSAT PENGAJIAN KEJURUTERAAN MEKANIK</div></div><div><div>LEAN SIX SIGMA TRAINING</div></div></div>		
No	TOPIC	CONTENT
1	Lean Management	Lean Management Overview, Lean Principles, Lean vs Six Sigma, Lean Management System, Voice of Customer (VOC), Value, Lean Applications (Case Study) Hands on Simulation (LegoPlane)
2	Change Management	Change Management Overview, 7 Steps of Change Management, Application of Change Management
3	Lean Culture and Leadership	Lean Culture Overview, Lean Culture Principles and Practices, Lean Leadership, Lean Coaching, Lean Mental Model
4	Employee Engagement	Employee Engagement Overview, 7 Tactics of Employee Engagement, Group Activities
5	Waste Elimination	Waste Elimintion Overview, Transportation, Inventory, Motion, Underutilization Skill, Waiting, Overproduction, Overprocessing, Defect, Application of Waste Elimination (Case Study)
6	PDCA	PDCA Overview, Plan-Do-Check-Act Phase, Basic Lean Tools in PDCA, Application of PDCA (Case Study) Hands on Simulation (Hotel/BurgerShop)
7	Visual Management	Introduction to Visual Management, Visual Display, Visual Standard, Visual Measure, Visual Control, Application of Visual Management, Group activities (Guess What)
8	5S	5S Overview, Sort, Set-in-order,Shine, Standardization,Sustain, Safety in 5S, Application of 5S (Case Study) Hands on Simulation (Numbers Game/Stationery Game)
9	Root Cause Analysis	Root Cause Analysis Overview, 5-Why, FishBone, Effort & Impact Diagram, Prioritization Matrix, Process Mapping, Application of Root Cause Analysis (Case Study) Group Activities (Based on Hotel/BurgerShop)
10	Statistical Process Control	Statistical Process Control Overview, Run Chart, Scatter diagram, Histogram, Pareto Chart, In-class exercise (M&M games)
	Exam	Final Exam (Socrative)



## TRAINING FORMAT

- 🕒 In-person face to face workshops, or live webinars.
- 🕒 Participants will be required to complete all ten modules and completed a case study project based on PDCA method.

## WHO SHOULD ATTEND

- 👥 Ideal for Professionals: Suitable for professionals from various fields looking to sharpen their skills.
- 👥 Empower Managers: Equip managers with the tools to lead process improvement initiatives effectively.

## BENEFITS

- 🧠 **Enhance Problem-Solving Expertise:** Master Lean Six Sigma methodologies to become a more effective problem solver.
- 🧠 **Boost Operational Efficiency:** Streamline processes, reduce waste, and maximize efficiency in your organization.
- 🧠 **Elevate Your Career:** Gain a competitive edge and unlock new career opportunities with Lean Six Sigma certification."

## EXAMPLE OF AWARDED CERTIFICATE



## MAIN TRAINERS



**IR. DR. NUR AMALINA MUHAMMAD**

**Senior Lecturer/Lean Six Sigma Black Belt**

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**Tel: 04-5996365**

Nur Amalina binti Muhammad is a Senior Lecturer at the School of Mechanical Engineering, Universiti Sains Malaysia. She obtained a B.Eng. degree in Manufacturing Engineering with Management from Universiti Sains Malaysia in 2012. Both M.Sc. and PhD in Manufacturing Technology from Universiti Sains Malaysia in 2014 and 2019, respectively. Her research interests are related to Lean Six Sigma, Production Management, Project Management, Ergonomics, and Engineering Management. She holds Lean Six Sigma Black Belt and actively involved in Lean Six Sigma Yellow Belt training in USM since 2013. She has published several papers in indexed journals, proceedings, and international and local conferences. She also frequently engaged with various industrial projects during his services at Universiti Sains Malaysia

**DR. HASNIDA AB SAMAT**

**Senior Lecturer / Program Chairman /  
Yellow Belt and Advanced Lean**

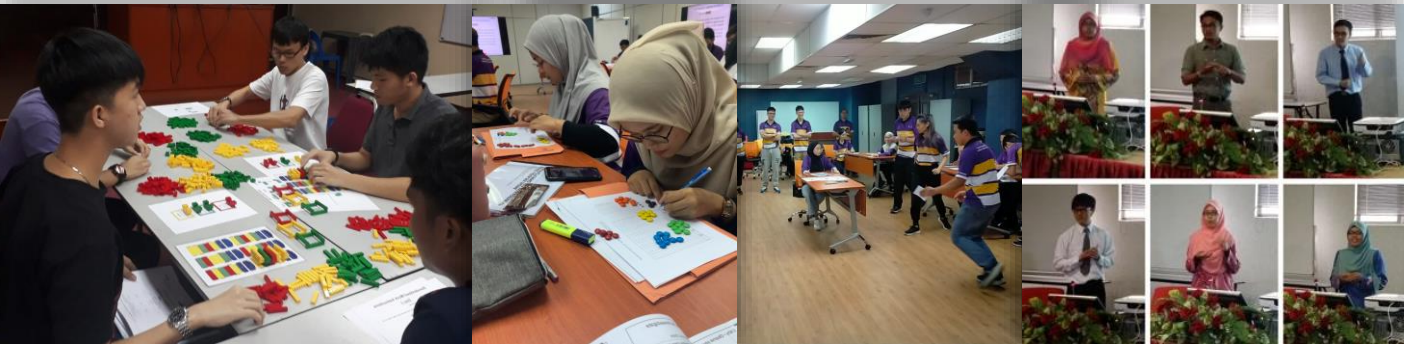
**Practitioner Email: [hasnida@usm.my](mailto:hasnida@usm.my)**

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Hasnida Binti Ab Samat graduated from the School of Mechanical Engineering at Universiti Sains Malaysia (USM) in 2015 with a PhD after completing her M.Sc. in 2010 and her B.Eng. (Hons) in Manufacturing Engineering with the Management programme. In the School of Mechanical Engineering USM, she is currently the Program Chairman for the Manufacturing Engineering with Management programme. Her areas of interest in research include Lean manufacturing, maintenance management, manufacturing systems, and production management. She has certifications in Yellow Belt and Advanced Lean Practitioner by Bose System Malaysia.



## TRAINING SESSIONS



USM Lean Six Sigma possesses a decade of expertise in Lean Six Sigma Training

## FEE STRUCTURE (INDIVIDUAL)

Fee Per Individual	RM5,000.00
Total of module	10
<b>TOTAL OVERALL FEE</b>	<b>RM5,000.00</b>



## FEE STRUCTURE (GROUP)

Fee Per Module	RM5,000.00
Total of module	10
Fee for PDCA Consultation (Optional)	RM4,000.00
<b>TOTAL OVERALL FEE</b>	<b>RM54,000.00</b>

### DETAILS

Date	Flexible (Based on client schedule)
Duration	5 days for 10 modules
Venue	USM or client site
Number of participants	Min 10 – Max 18 pax

## CONTACT DETAILS



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