



# Value Stream Mapping for Manufacturing (VSM) Public Training

## OBJECTIVES

Value Stream Mapping is a powerful visualization tool to see & understand the flow of material and information as a product or service makes its way through the value stream & to identify the non-value adding activities & waste present within the organization. The mapping process results in a detailed overview of the production or service delivery flow & focus attention on Lean concepts & the application of Lean methods enabling targeted Kaizen activities. This 2 days Value Stream Mapping training course uses a blend of theory & classroom exercises.

## DEPARTMENTS

Business Process Improvement, Change Mgt, Transformation Dept, Continuous Improvement, Project Mgt, Contract Dept, Innovation Dept, Commercial Dept, Business Development, Strategic Planning, Human Resource, Finance & Others

## ACCREDITATION

Meridian Biz Management (MBizM) is an accredited Training Organization, Curriculum Provider & Examination Centre by IASSC (International Association for Six Sigma Association) and CSSC (Council for Six Sigma Certification). IASSC is a professional association dedicated to growing & enhancing the standards within the Lean Six Sigma community. CSSC is a professional accreditation body within the Lean Six Sigma industry.

## INTRODUCTION

- During the Value Stream Mapping course delegates will develop an understanding of :-
  - Customer Value & the key elements & methods of Value Stream Mapping
  - How to define & analyse the Current State Value Map, material and information flows
  - The three stages to develop an ideal future state map
  - How to derive a Kaizen improvement plan
- In this Value Stream Mapping training course, participants will learn how lean thinking has become a widely adopted improvement approach that can greatly simplify processes & improve performance. At the heart of Lean thinking is the focus on creating value for the customer and eliminating waste.
- The stream of activity within an organisation that creates customer value is called the value stream. Value Stream Mapping is the tool used to understand, analyse and improve a value stream. The focus of this course is to provide participants with the practical skills to use value stream mapping in a manufacturing organization.

**DURATION: 2 DAYS**

### COURSE CONTENT

#### DAY 1

- Introduction to Lean and Peoples Issues
- Process Mapping & SIPOC
- Introduction to Value Stream Mapping
- Value add, Value enabling & Non-Value Adding Activities
- Elements of A Value Stream Map
- Material Flows and Information Flows
- Value Stream Metrics—VA & Lead Time
- Current State Value Stream Map
- Case Study 1— Classroom Exercise
- Simulation Workshop : Assembling Water Spray Bottles (Current State)

#### DAY 2

- Identifying—7 wastes—TIMWOOD
- Understanding customer Value & TAKT Time
  - Flow Lines and Design for VA flow
  - Analysing Current State to Identify Waste
  - Developing an Ideal Future Value Stream Map
    - Customer Demand
    - Continuous Flow—Celular Manufacturing
    - Load Levelling—Heijunka and Andon Boards
    - Yamazumi and Nagare Cells
    - Supermarket & Kanban Systems
    - FIFO Lanes
    - Kaizen Improvement & Implementation Plan
  - Case Study 2- Classroom Exercise
  - Stimulation Workshop—Assembling Water Spray Bottles ( Future State )
  - Lean A3 Reporting Structure for Management

## WHO SHOULD ATTEND

Chief Executive Officers, Managing Directors, Executive Officers, General Managers, Managers, Executives & Others

**Online Materials Provided!**

**Dr. Satnam Singh | Experienced LSS Deployment in Europe & India**



Dr. Satnam Singh graduated from Liverpool John Moores University (UK) with a Bachelor's Degree in Mechanical Engineering. He then furthered his studies at Coventry University in UK & was awarded with a Master's Degree of Science in Engineering & Manufacturing Management. Dr. Satnam then continued to study for his doctorate and was awarded with a PhD in Engineering & Manufacturing Management.

Dr. Satnam has been actively involved in the field of Continual Improvement activities since the beginning of his tertiary education. While accomplishing his Master's Degree in the United Kingdom, he had been extensively trained in Lean Systems & Six Sigma whilst working as a Project Manager for a Multinational Corporation (MNC) in the UK for 14 years. During his stay with the MNC in the UK, Dr. Satnam was tasked with the responsibility of promoting and implementing Lean & Six Sigma within the Organization and throughout Europe. Due to his extensive exposure to Lean & Six Sigma Management Systems, he was invited by the company's European Subsidiaries to conduct in-house training, project consultations, and strategic planning in the area of Six Sigma implementation. Dr. Satnam is known as a Visiting Lecturer in Infosys India.



**Mr. Harbans | Experienced LSS Deployment in Samsung & Asia Pacific**

Mr. Harbans Singh, is a graduate of University of East London and holds a Bachelor's Degree (Hons.) in Information Technology majoring in Software Engineering. He is certified as a Six Sigma Black Belt trained by Juran Institute (USA & Korea) under the supervision of Samsung Electronics Asia Pacific. Mr. Harbans has gained over 12 years of working experience both in the manufacturing & service industries.

Mr. Harbans has extensive experience in performing statistical analysis by using statistical software (MINITAB) and various quality tools. Harbans was involved in Innovating Supplier Processes using QDC (Quality, Delivery & Cost) improvement and Improving Supplier Processes by utilising OEE & Lean concepts. He's major achievement would include the development of Six Sigma Green Belts & Six Sigma Black Belts within Samsung Electronics Asia Pacific Region. Furthermore, he mentored Six Sigma Yellow Belt, Green Belt & Black Belt projects that contributed to total cost savings of USD \$15 million during the past 6 years. He also has extensive experience in developing and conducting Six Sigma Champions Training, Black Belt, Green Belt & Yellow Belt training programmes for Private Companies, major Government Linked Companies (GLCs) in Malaysia & many other Government Agencies.

## Dr. Muraliraj | Expert in LSS, Process Improvement & Lean Enterprise Solutions



Dr. Muraliraj holds a doctorate degree from University of Malaya (Malaysia) overlapping the field of Quality Management, Continuous Improvement & Innovation. His research base is centred around continuous improvement philosophies such as Lean & Six Sigma and how their application & management can potentially morph towards innovation.

Specialised in process mapping, optimization, cost reductions, and deploying process excellence strategies, Dr. Muraliraj has been involved in process excellence projects, performance improvements, and change management in shipping, oil & gas, engineering, and IT industries for more than 7 years. One of his recent successes includes training & coaching Lean Six Sigma in a national multi-industry corporation involving tens of personnel ranging from various designations which led to substantial financial savings besides sustainable operational excellence.



## Mr. Muhammad Faisal | Expert in LSS Specialized in Manufacturing & Process Improvements

Mr. Faisal graduated from University of Technology (UTM), Malaysia with Bachelor's in Chemical Engineering & later pursued his Master's in Business Administration at University Utara Malaysia. He started his career as an engineer in a renowned MNC & was later enrolled in Lean & Six Sigma as a practitioner & was selected as a trainer. His role as a senior staff allows him to work with front-line & middle management.

While working as a coordinator in Innovation Team, he was liaising with top management such as Factory Managers & Directors and had contributed to establishing company strategies toward achieving the mission & vision. While enduring his career as a continuous improvement specialist, he was extensively involved in process improvement initiatives, Six Sigma & Lean Manufacturing. He has profound experience in manufacturing, engineering, & training.

## Mr. Balasharmila Rao | Senior BPM Consultant



Mr. Bala is a Mechanical Engineering graduate from the National University of Singapore (NUS) with a specialization in Offshore Oil & Gas Technology. Parallel to his undergraduate study, he has completed a three-year Design Centric Programme (DCP) under NUS, culminating in a successful Electric Vehicle (EV) conversion project with a peer-reviewed IEEE Journal paper publication.

After an industrial attachment with Schlumberger & maiden career start with Halliburton in the oilfield equipment design vertical, Mr. Bala returned to Kuala Lumpur in 2016 and joined YTL Communications (YTL) in the Facilities Management Department. He developed the department's first suite of Standard Operating Procedures (SOPs) for Operations & Maintenance, coordinated the department's audit compliance for ISO27001: 2013- Information Security Management System (ISMS) for YTL's Data Centers, and improved diverse aspects of maintenance operations such as Preventive & Corrective Maintenance Management, Rounds & Readings & Facility Management Service Requests. He is also instrumental in improving YTL's overall National Department of Occupational Safety & Health (DOSH) Audit rating from a Grade 'D' in March 2018 to a Grade 'A' in October 2018 with further recommendation for Ministerial Award Competition participation. Mr. Bala holds certifications in Lean Six Sigma Green & Black Belt, ISO9001: 2015 (QMS) Requirements, Train The Trainer (PSMB TTT/27657), and Oil & Gas Law (BAC).

## Mr. Muhammad Nizam | Trainer & Facilitator



Mr. Nizam holds a degree in Electrical & Electronic Engineering with a specialization in Control & Instrumentation from Universiti Teknologi PETRONAS (UTP). His professional journey has centered on the manufacturing sectors. During his tenure as a Production Executive and later as a Manager, Mr. Nizam discovered a profound interest in Continuous Improvement and Culture Transformation.

In pursuit of this passion, Mr. Nizam has undertaken numerous projects aimed at enhancing productivity, increasing operational efficiency and ultimately minimizing costs to maximize profit margins. His dedication to continuous improvement led him to acquire certification in Lean Six Sigma Green Belt, allowing him to adopt a more systematic and strategic approach to his work. Furthermore, Mr. Nizam played a pioneering role in introducing new technology and automation into the production process through the strategic implementation of Industry 4.0 in his previous company. This transformational effort has reshaped traditional production lines into agile, data-enabled, and highly efficient production units, reflecting his commitment to staying at the forefront of industry trends.



## Ms. Vijayaletchumi | Trainer & Facilitator

Ms Vijaya graduated from Universiti Selangor (UNISEL), Malaysia with Bachelor's in Biotechnology Industry and later pursued Master's Degree of Science in Food Technology at Universiti Putra Malaysia (UPM). She started her career in the Quality Control / Quality Assurance department in feed mill operation. She served as the organization's quality management representative (QMR) for 10 years, which allowed her to work with different levels of management. She was extensively involved in process improvement and developed Standard of Operating Procedures (SOP) for ISO9001: Quality Management System and ISO22000: Food Safety Management System to improve diverse aspects of the organization.

During her tenure as a Group Quality Manager, she has a profound interest in Quality Management, Continuous Improvement and Innovation that led her to acquire certification in Lean Six Sigma Black Belt.

Vijaya led a region-wide laboratory operation with a team of 60 Quality Assurances and Quality Control Specialists in both North and South of Vietnam. Conducted quarterly training and recommended industry best practices to increase efficiency and boost overall lab productivity.