



# CQE Training & Consultancy Plt (Reg No. : LLP 0003668 LGN)

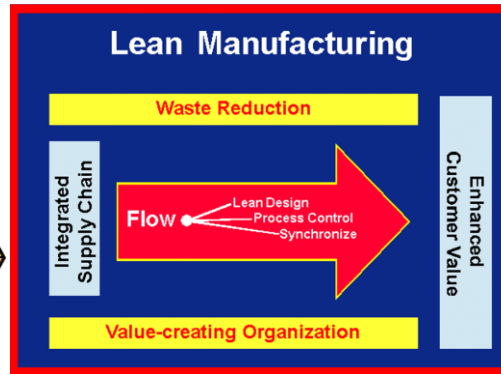
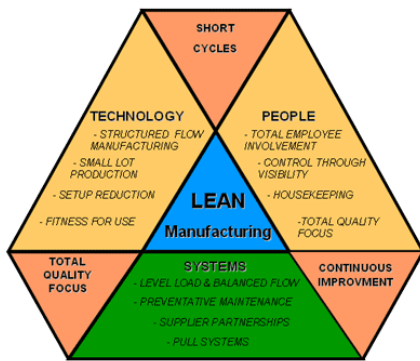
Registered Office : No. 46, Lorong Bintang, Taman Tasik Permai, 34000 Taiping, Perak. Malaysia.

Operating Office : No. 85A (1<sup>st</sup>. Floor), Jalan Barrack, 34000 Taiping, Perak. Malaysia.

T : +605-805 2722 F : +605-805 2721 M : +6012-505 2720 / +6012-502 2720

E : [cqetraining@gmail.com](mailto:cqetraining@gmail.com) or [kuangkh@cqetraining.com](mailto:kuangkh@cqetraining.com) W : <http://www.cqetraining.com> B : <http://cqeblog.blogspot.com>

## LEAN MANUFACTURING (LM) (PUBLIC / IN-HOUSE TRAINING PROGRAMME)



### Introduction

Lean thinking has become a widely adopted improvement approach that can greatly simplify processes and 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. Various common good manufacturing practices such as **5S Housekeeping** (workplace organization), **Value Stream Mapping** (VSM – manufacturing and production streamlining and levelling), **Single Minute Exchange of Die** (SMED - Setup reduction or quick changeover), **Total Productive Maintenance** (TPM – OEE, Overall Equipment Effectiveness), **Visual Factory Management** (VFM), **Predictability and Consistency in Production** (FMEA, SPC, MSA and DOE) are the tool used to understand, analyse and improve a value stream. The focus of this 3-days of Lean Manufacturing training course is to provide delegates with the practical skills to understand and acquire great understanding on concepts and philosophy of lean in a service or manufacturing organisation.

If you are discovering **how to implement lean manufacturing** you may be asking yourself firstly **what is lean manufacturing**, how do I define lean manufacturing and where does Lean Manufacturing come from? What are the principles and concepts of lean manufacturing?

To truly begin to understand lean you need to know how it has developed, the history of lean manufacturing. The answer depends on where you accept that it is "lean manufacturing", you could start with the first production lines of Mr. Ford producing the model T, although you could go back further to the Early 18th century in England when Muadsley and Marc Brunel (the father of Isambard Kingdom Brunel) set up production lines to produce pulleys for the Royal Navy.

The real start of Lean is with Toyota, this is where the Motion Studies of Gilbreth, the Time Studies of Taylor combined with Ford's production lines were really developed along with the quality focus of Deming, Shewhart, and Juran. What Toyota began to develop was the Toyota Production System (TPS).

Toyota driven by a vision to be better than the west with limited available resources developed what we now call Lean, it was "brought" to the west in the 1980's as companies here began to realise that they had to rethink what they were doing to be able to compete with the Japanese.



## CQE Training & Consultancy Plt (Reg No. : LLP 0003668 LGN)

Registered Office : No. 46, Lorong Bintang, Taman Tasik Permai, 34000 Taiping, Perak. Malaysia.

Operating Office : No. 85A (1<sup>st</sup>. Floor), Jalan Barrack, 34000 Taiping, Perak. Malaysia.

T : +605-805 2722 F : +605-805 2721 M : +6012-505 2720 / +6012-502 2720

E : [cqetraining@gmail.com](mailto:cqetraining@gmail.com) or [kuangkh@cqetraining.com](mailto:kuangkh@cqetraining.com) W : <http://www.cqetraining.com> B : <http://cqeblog.blogspot.com>

### Learning Outcomes/Objectives

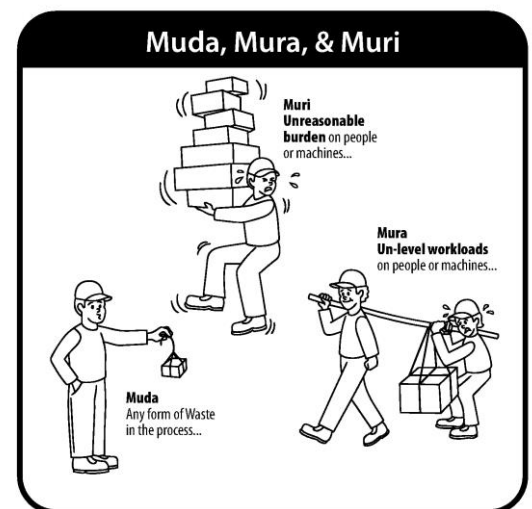
Also available as  
in-house programme

This course is specifically developed to provide participants in the manufacturing and servicing industry the uses a blend of theory and practical exercises. During the Lean Manufacturing training course, delegates will develop an understanding of:-

- What is Lean Manufacturing? Its concept and philosophy, Practices and Implementation
- History development of Lean Manufacturing
- Terms and terminology
- Benefits of Lean Manufacturing
- Key important and imperatives elements of Lean Manufacturing
- Necessary critical success factors in Lean Manufacturing Implementation
- Setup implementation infrastructure and supporting architectural
- Roadmap and milestones

### Program Contents

- ✚ Introduction to Lean Manufacturing, Its Concept and Philosophy
- ✚ Why Lean Manufacturing and Its Benefits
- ✚ Terms, Definitions and Terminologies
- ✚ Inculcate Lean Thinking Culture and Environment
- ✚ Key Important Components of Lean
- ✚ Eliminate Deadly Waste
- ✚ 5S Housekeeping (Workplace Organization)
- ✚ Value Stream Mapping (VSM – Production Streamlining and Levelling)
- ✚ Single Minute Exchange of Die (SMED Setup Reduction or Quick Changeover)
- ✚ Visual Factory Management (VFM)
- ✚ Process / Operation Predictability and Consistency (FMEA, SPC, MSA and DOE)
- ✚ Total Productive Maintenance (TPM, Overall Equipment Effectiveness)
- ✚ Continuous Improvements Culture
- ✚ Lean Starts with People





# CQE Training & Consultancy Plt (Reg No. : LLP 0003668 LGN)

Registered Office : No. 46, Lorong Bintang, Taman Tasik Permai, 34000 Taiping, Perak. Malaysia.

Operating Office : No. 85A (1<sup>st</sup>. Floor), Jalan Barrack, 34000 Taiping, Perak. Malaysia.

T : +605-805 2722 F : +605-805 2721 M : +6012-505 2720 / +6012-502 2720

E : [cqetraining@gmail.com](mailto:cqetraining@gmail.com) or [kuangkh@cqetraining.com](mailto:kuangkh@cqetraining.com) W : <http://www.cqetraining.com> B : <http://cqeblog.blogspot.com>

- + Data Drive Lean
- + Layout Lean Options
- + Lean Inventory Strategy
- + Supporting Tools and Techniques
- + Lean Implementation Roadmap and Milestones
- + Lean Manufacturing common success factors and pitfalls



## Who should attend

Managers, Engineers, Executives, Supervisors, Quality Practitioners and any member of an organisation who is from Process, Research and Development, Quality and Production will find this course relevant and beneficial to their job function related to Lean Manufacturing, Operation, Administration and Servicing.

## Methodology

The program would be conducted by using the following materials / aids :-

- Course Notes
- OHP / LCD
- Exercises / Case Studies / Workshop
- Video Showing
- Lecturettes

## Duration

3 days

## Participants

Max ~20 pax





# CQE Training & Consultancy Plt (Reg No. : LLP 0003668 LGN)

Registered Office : No. 46, Lorong Bintang, Taman Tasik Permai, 34000 Taiping, Perak. Malaysia.

Operating Office : No. 85A (1<sup>st</sup>. Floor), Jalan Barrack, 34000 Taiping, Perak. Malaysia.

T : +605-805 2722 F : +605-805 2721 M : +6012-505 2720 / +6012-502 2720

E : [cqetraining@gmail.com](mailto:cqetraining@gmail.com) or [kuangkh@cqetraining.com](mailto:kuangkh@cqetraining.com) W : <http://www.cqetraining.com> B : <http://cqeblog.blogspot.com>

## Using Kanban for Continuous Improvement

