

Introduction to Lean Six Sigma (2 Day)



Background

The concept of Lean Manufacturing was developed in the early 1990s from studies of the Toyota Production System. It focuses on eliminating waste in processes, waste being anything that impedes the flow of product as it is being transformed in the value chain. Lean Manufacturing, to coin a phrase means 'getting product to where it is needed, when it is needed, in the quantity needed'. Quality problems, buffer stock, unreliable machines, inefficient process layout, all impede flow in the value chain and thus Lean Manufacturing uses a variety of tools focusing on the elimination or reduction of these issues. These tools target improvements in quality, machine reliability, workplace organisation, set-up time reduction and streamlining material flow.



This two day course serves as an introduction to Lean Manufacturing. The workshop presents the concepts, tools and techniques involved in the practical application of Lean Manufacturing using a series of easy to understand modules and exercises.

Objectives

- To give an overall understanding to the concept and origins of Lean Manufacturing and the Lean Enterprise
- To give a fundamental understanding to the 5 Principles of Lean Manufacturing and the practical know-how to identify opportunities for Waste elimination
- To demonstrate the use of Lean Tools in the work-place via a simulated game and team based exercises
- To ensure the participants having identified opportunities can translate these into specific actions for back at work implementation.

Who should attend

This course is intended for personnel working within the design, manufacturing and manufacturing support functions (Materials, Quality, Engineering). The course is aimed at Process Design/Manufacturing Engineers, Production Supervisors/Line Leaders, Materials/Supply Chain/Logistics Supervisors.

Course Programme

Day 1

- Introduction
- History of Lean
- The 5 Principles of Lean



- The Benefits of lean
- The Toyota Production System
- The 7 wastes
- Lean vs Traditional manufacturing
- Manufacturing Simulation

Day 2

- Applicable tools
- Value stream Mapping
- Kaizen
- 5s & Visual Controls
- Takt Time and Production Levelling
- Kanban and the Pull System
- Lean Deployment
- Case Studies
- Action Planning

Summary

Day 1 provides the learner with a good understanding of the concepts of Lean Manufacturing and a practical demonstration of the benefits of lean through a manufacturing simulation.

Day 2 gives the learner the tools and techniques used to implement Lean in their own organisation.

Course Manual

Course notes will be provided to participants along with a soft copy on memory stick, which proves to be an excellent source of reference after the course.

Why Choose ETAC?

ETAC is an Irish Company specialising in the provision of training, expertise and software solutions in all matters related to Lean and Six Sigma Business Improvement Programmes. All ETAC associates have extensive knowledge and many years of practical experience in Lean Implementation, Programme Management, Change Management & Six Sigma in many different industries in Ireland, the UK, Europe and the USA.

ETAC has been responsible for the training of over 200 Six Sigma and Lean practitioners including project support for projects that have delivered over €6,000,000 in hard financial benefits for our clients.

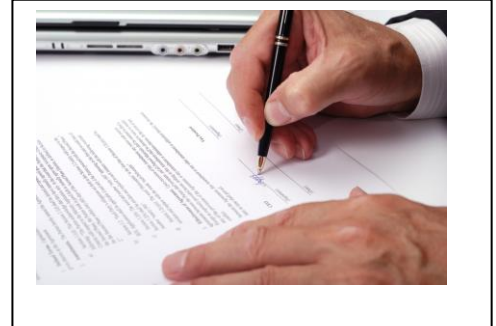
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Training Methodology

This classroom based course is highly interactive and uses practical exercises and simulated case studies to reinforce understanding and learning.

Course Organisation

Course Times are typically 9.00am-5.00pm.
Group sizes up to 12 per group.



ETAC

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