

Lean Processes and Tools

Introduction

Lean thinking is based on the legendary Toyota Production System that produces very high quality products; in a very short time and at a low cost. To many people and organisations achieving all three of these goals simultaneously is an impossibility. Lean provides a methodology and tools that enable organisations to make significant improvements in lead time, cost reduction and product or service quality. This course provides delegates with a practical introduction to the lean methods and tools so that they can undertake simpler improvement activities.

Objectives

This three day course uses a blend of theory and practical exercises. During the course delegates will develop an understanding of:

- The key elements of the Lean thinking and methodology
- Voice of the customer; customer value and the value stream
- The identification (learning to see) and elimination of waste in processes
- The main lean tools and techniques and their practical application.

Course Content

- Introduction to Lean thinking
- Approaches to quality and process improvement
- DMAIC methodology
- Lean Project Charter
- Voice of the customer and customer value
- Process flow diagrams
- Value stream mapping—current state
- Lean measurement
- Operational definitions
- Data collection
- Analyse current state
- Determining lean metrics
- Identifying waste (learning to see)
- Root cause analysis tools
- 5S, mistake proofing and visibility principles
- Push versus pull and kanbans
- Set-up reduction, SMED
- Standard work,
- Workload balance and takt time
- Brain storming techniques and evaluation
- Future state value stream map
- Improvement action plan
- Measuring and sustaining the gain
- Ownership reward and recognition

Who should attend?

All staff wishing to understand how Lean thinking and lean tools can be used to deliver process improvement projects in the work place. There are no prerequisites for this course except a willingness to participate and an open mind.

Follow on courses

Value Stream Mapping (2 days) or Lean Six Sigma Green Belt (5 days)

Further information

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