



Lean Thinking

4 Day Course

CPD Approved by



**SKILLS AND TOOLS FOR
SUCCESSFUL SITES**



Background

Lean thinking is a philosophy that when applied to construction seeks to deliver 'best value' to the customer through 'minimisation' of waste and creating flow through design and construction.



In the early 90s, Lean thinking allowed the car manufacturing industry to drive down costs, whilst improving quality and delivery; they continue on this journey, combating tougher competition in a globalised economy.

The construction industry has embarked on the same journey and the imperative to understand and apply lean in a Construction business has been given impetus by the Government Construction Strategy, which has its origins in the Latham and Egan Industry Reports.

The Strategy "...challenges industry business models and practices. It will replace adversarial cultures with collaborative ones; and will demand cost reduction and innovation within the supply chain to maintain market position"

Construction Industry Clients expectations have been raised to achieve the targeted "33% reduction in the initial cost of construction and the whole life cost of built assets and 50% reduction in the overall time, from inception to completion, for newbuild and refurbished assets"

In order to win work and effectively compete lean construction will no longer just be an option but is key to sustaining a construction business.



Aims of the Course

This course is ideal to those who wish to fully understand the potential available from lean construction techniques. Much has been written about lean construction and there is a great deal of confusion about the principles.



The training sessions has been designed to cut through the confusion and to explore how lean can be applied in a practical way and make a real difference to your own situation.

It is an intensive, practical training course where the aim is for individuals to leave better equipped to manage future projects in a more effective manner.

The syllabus covers:

- Fundamental lean concepts as guiding philosophy for better and more efficient working;
- The importance of team working, leadership and supply chain management;
- In-depth familiarisation surrounding a foundation set of lean tools and techniques and their application in construction;
- Case studies and practical examples from various construction settings;
- Simulations driving through the learnings.



Who Should Attend?

All construction professionals, actively engaged in delivering projects, within the construction supply chain will benefit from the course as lean concepts and its tools & techniques, is applicable to all businesses in all sectors and can be learnt as such.



Course Details

Workshop 1

This workshop will introduce delegates to the concept and practice of lean construction and process waste elimination. Delegates will take part in a simulation exercise to experience first hand some of the key concepts of lean construction and how lean thinking can be practically applied to improve operations.

Delegates will get an overview of the key lean tools and techniques available. A waste identification and quantification exercise will be conducted to illustrate opportunities where lean can be applied to one's own organisation.

Workshop 2

This workshop looks specifically at planning and programming using the Collaborative Planning tool. This tool consists of the 4 stages of collaborative planning and is applicable on all phases of a project from procure/design to build phases on site:

1. Masterplanning
2. Constraints Theory & Ready to Build
3. Weekly Planning
4. Daily Standups

The concepts of batch size reduction and Line of Balance to minimise work in progress (WIP) will feature strongly in this workshop. And visual matrix tracking will be introduced to monitor and communicate progress.

Delegates will be given a simulated project to plan and programme around, applying newly acquired learning. A live project can be used if the team is working on one.

Workshop 3

The third day's workshop will start with an exercise on teamwork and communications covering the benefits of 2 heads being better than 1. This will be followed by an intense session going through the following tools & techniques:

- Problem Solving
- Lead Time Analysis & Direct Observation
- The Visual Workplace

Lean is the approach that underpins BIM L2



Workshop 4

The last day of the workshop will cover 2 more hard tools and techniques, FMEA and Standardise work, before embarking on an interactive exercise on how to produce a lean project delivery strategy. This exercise will provide delegates with the knowledge of how to start a project with the end in mind.

Course Delivery

The day is a mixture of chalk and talk theory teach points, group discussions and breakout sessions, interspersed with simulations to drive home learning points.



The programme can be tailored to place emphasis on specific aspects, if required dependent on delegate background e.g.:

- Process based – commercial, design, construction etc.
- Project based – supply chain management, programming etc.
- Activity base – road construction, fit out stages etc.

How much does it cost?

Please call us on 0845 8673788 to discuss.



'Projects, as a whole, came in on time or better 34% of the time, the worst performance for 12 years'

'Looking ahead although the industry is expected to gradually emerge from recession, trading conditions will remain tough. Public and private sector clients alike will continue to demand that firms demonstrate their ability to deliver projects to time and budget'

Find out more

To find out more, book on an open course, or discuss running the training in house please call us on 0845 867 3788 or email info@6ixconsulting.co.uk