



**Project based**  
*Collaborative planning*  
**training**  
**4 Day Course**

**PROJECT BASED TRAINING IN COLLABORATIVE PLANNING  
TECHNIQUES PROVEN TO IMPROVE FLOW, QUALITY, DELIVERY  
ON TIME AND REDUCE BUSINESS RISK**



Improving the performance  
of UK Construction



“I hear I forget,  
I see I remember,  
I do I understand”

*-Confucius*



## Background

The main contractor, without the full support or input of the supply chain, or the design team, traditionally carries out planning for construction projects. Despite the skill and conscientiousness of the planner the result can be no more than an educated guess at bid / early contract stage on specialist processes, with up to 50% of activity summarised in a few long bars on a Gantt Chart.



Statistics show that in 2012 only 42% of U.K. construction projects finished on time (construction stage) compared to 65% in 2007 where a more collaborative approach was generally being adopted.

At the same time research is indicating that poor quality on Construction projects typically cost 5% of the project turnover; these costs are often hidden in project preliminary costs and supply chain costs. In addition it is not uncommon for Main Contractors to reserve 0.5% of turnover as a reserve to manage and resolve post completion defects. This is at a time the Industry is returning profit levels at only 2%.

In contrast, supplier teams that have employed collaborative planning techniques have not only managed to consistently deliver on time, but also reduced project lead times by up to 30% with up to 95% improvements on quality.

Many of the delivery and quality issues are accepted as the natural order of things in UK Construction or perceived as operational management failures at project / site level, however many of the issues experienced are a result of poor “readiness to build” and have their origins in the design and procurement methodology adopted.

With ‘lowest cost’ tendering and procurement to latest start time recently dominating the Client and Contractor strategies, late involvement of the key members of the supply chain frequently causes design rework and project delays. The Government Strategy 2011 highlighted that 20% cost savings could be realised through the life cycle of the project by better procurement and design management, leading to the recent publication of PAS 1192 to support delivery at BIM Level 2.



## Aims of the Course

The aim of the Collaborative Planning Training is to take the project team through a collaborative design and planning process that starts at project award and equips the whole team with the tools and techniques to continue the process through the project and to support integration of collaborative working methodologies into the business. The four workshops are targeted at critical points in the project to ensure they have the optimum impact.



The idea of creating flow between design, procurement and construction is a key principle of the intervention and aligning design ‘Volume Strategy’ with anticipated batch working of the building project at each stage will be a key aim.

Project teams will be taught the four stages of collaborative planning by our market leading lean construction industry professionals by implementing the techniques on their project.

# Course Details

<b>Workshop 1</b>	<b>Master Planning Volume &amp; Batch Strategy with Construction Team and Designers</b>
<p>Following a “Lean Simulation” and a short introduction to lean principles and PAS 1192 the Construction and Design Team and key supply chain are required to generate Master Process Map, batching sequence and direction of works for each phase of the project. This will inform Construction Phase Programme, Procurement and Residual Design Programmes. Information release and procurement can be more accurately aligned with project demand with all project control documents being linked to outputs of the workshop. The team will be introduced to the concept of “Ready to Build” and the importance of having ‘visibility’ on all the inputs that can stop an activity starting.</p>	
Lean Theory / Tools & Techniques Covered	Next Customer Thinking, Ready To Build, Value & Waste, Batch Reduction Theory, The Value Stream, PAS 1192
<b>Workshop 2</b>	<b>Sub Structure / Superstructure Master Planning with the supply chain.</b>
<p>Supply chain trade supervisors, site management and the project team all work closely together to develop batch process maps and resourced operational programmes for the first two phases of the project. This can sometimes take two or even three workshops subject to the complexity of the project, additional facilitated support can be agreed on a project by project basis. The detail developed at his session allow resources to be balanced and the flow of resource of key trades to be optimised up to water tight to allow finishes trades to start as early as practical and maintain continuity of work.</p>	
Lean Theory / Tools & Techniques Covered	Benefits of Collaborative Working, Process Mapping, Value & Waste, Next Customer, Batching, Line of Balance Programming
<b>Workshop 3</b>	<b>Ready to Build &amp; Weekly Planning</b>
<p>Despite development of robust plans experience tells us that these plans often fall down because a key process input hasn’t been carried out to allow the activity to start on due date. Ready To Build is a key project visual management tool that will require regular review by the team to allow actions to be prioritised against programme demand. The collaborative planning process is maintained throughout the project by means of weekly and daily trade co-ordination meetings on site led by the site manager. Tasks are pulled from the Ready to Build tracker and executed via a detailed weekly plan, the success of which is measured to the day. Causes of delays and disruptions are recorded and significant repeat items become the subject of problem solving sessions with the relevant sub contractors.</p>	
Lean Theory / Tools & Techniques Covered	Ready To Build, Weekly Planning, Daily Planning, ‘Planned Activities Complete’ & ‘Not Right First Time’ KPIs & Problem Solving
<b>Workshop 4</b>	<b>Finishes Stage Collaborative Planning</b>
<p>Trade site supervisors, site management and project team work closely together to develop batch process maps and resourced operational programmes for the completion stage of the project. The detail developed at his session will allow resources to be balanced and the flow of resource of key trades to be optimised up to final site wide commissioning. The session includes theory on the importance of batch size reduction and ‘next customer’ focus. The team will be expected to develop a Batch Tracking Matrix and this will be used as the main progress-tracking tool for the finishes stage.</p>	
Lean Theory / Tools & Techniques Covered	Process Mapping, Value & Waste, Next Customer, Batching, Line of Balance Programming, Batch Tracking Matrix

## Course Delivery

The participants will develop their skills during a series of four full day workshops that will progress the candidates from the basics of lean theory through to application project management tools and collaborative planning strategies that have been proven to improve quality, cost control and programme delivery.



Each training workshop is complemented by a full set of supporting spreadsheets and documents provided free of charge to the participants for use on their projects. These tools have been successfully used by organisations across the UK and have been specifically produced to reflect best practice and be user friendly for those generating the document and importantly those receiving it.

## 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](mailto:info@6ixconsulting.co.uk)