



# Taking 'lean' to the line. . . .

*L2L is an action centred programme of rapid workplace improvement, enabling your people to take the principles of World Class Manufacturing direct to your shop floor in just 12 days or less.*

*The benefits of this shopfloor approach:*

- ▶ *Totally practical: all the participants 'See it', 'Feel It', 'Do it'*
- ▶ *'Class room' time is kept to an absolute minimum*
- ▶ *Avoids the problem of transferring theory from the class room to the workplace*
- ▶ *Participants are usually more confident in their own work place environment*
- ▶ *Practical involvement ensures your people develop deep understanding and valuable skills*
- ▶ *Tailored to your specific requirements*
- ▶ *Delivers immediate and visible results*



*Typical L2L schedule:*

- ▶ *Introduction to Lean Manufacturing and the L2L programme: 1 day*
- ▶ *5S course (including operator clean and check principles and introduction to TPM) : 3 days*
- ▶ *Changeover and Set-up reduction (practical application of SMED): 3 days*
- ▶ *Cellular Manufacturing (including the principles of 'flow' and 'pull' against 'queue-batch' and 'push'): 4 days*
- ▶ *Programme review and presentations to management: 1 day*

*"We can see real profit benefit. In both our offices and factories quality and productivity are continually improving and waste is reducing.*

*There is no doubt about it – Fourth Generation Management works."*

*G Holden, Finance Director,  
Marshalls Plc*



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Fourth Generation Manufacturing provides a coherent set of operating principles for any organisation. In 4GM Consulting, we work closely with client organisations to turn 4GM theory into results. Naturally, our training and business development services all incorporate 4GM principles.

## *Taking Lean To The Line*

Modules may include:

### Principles of Lean Manufacturing

- ▶ *World Class Manufacturing demystified through the application of 'Lean Thinking'*
- ▶ Effectiveness Vs. Efficiency
- ▶ Value and Value streams
- ▶ Flow and Pull Vs. Batch and Queue 'push' systems
- ▶ The Visual Workplace
- ▶ Continuous Improvement

### 5S

- ▶ *The basis for creating value by doing the right things the right way. Order and cleanliness are the first steps for value-added optimisation*
- ▶ An organised factory is a safer factory
- ▶ An organised factory produces fewer defects
- ▶ An organised factory improves it's productivity
- ▶ An organised factory improves it's delivery performance
- ▶ An organised factory is a more attractive place to work

### Changeover and Set-up Reduction

- ▶ *Set-up is the time between the production of the last good part to the first good part off the next production run at full production rate*
- ▶ Enables faster response to customer needs
- ▶ More production flexibility
- ▶ Reduced lead-time
- ▶ Less adjustments mean fewer errors
- ▶ Right first time reduces waste
- ▶ Simpler methods are safer
- ▶ Less complexity for setters/operators
- ▶ Improved profitability
- ▶ Enables lower inventory levels
- ▶ Improved Overall Equipment Effectiveness

### Cellular Manufacturing

- ▶ *Moving from isolated islands of 'efficiency' caused by traditional batch and queue systems to highly effective flow process production*
- ▶ Waste elimination
- ▶ Motion economy
- ▶ Takt time, manning levels and line balance
- ▶ Applicable use of kanbans

### Tools & Techniques for Continuous Improvement

- ▶ *Reduce waste and improve quality with basic tools and techniques for team based improvement*
- ▶ Plan-Do-Study-Act
- ▶ Process improvement Vs. problem solving
- ▶ Process and value-stream mapping
- ▶ Brainstorming methods
- ▶ Effective use of data
- ▶ Statistical process control (SPC)
- ▶ Project management

To arrange a 'no obligation' assessment of how our L2L programme can help you to make better use of time, eliminate waste and improve operating effectiveness:

... contact 4GM Consulting

After they have successfully applied 4GM principles, our clients often tell us that what we advocate is 'common sense management'.

But if it were common sense, wouldn't everyone already be doing it?