



LEAN SIGMA MANUFACTURING GREEN BELT

14-Day Programme commences August 16th 2010 ~ Leamington Spa



INTRODUCTION
<p>This programme is designed to provide delegates with an integrated approach for improving the flow, capability and consistency of manufacturing processes, thereby reducing waste, increasing customer satisfaction and improving business performance. The robust 'DMAIC' approach provides a common structure for improvement, within which a wide range of techniques can be applied. Improvement projects undertaken by delegates are a key feature of this Green Belt programme, enabling them to 'learn by doing', and providing an immediate return for their companies.</p>
OBJECTIVES
<ul style="list-style-type: none"> To develop a clear understanding of value, waste & process variability To ensure that the essential foundations are in place for successful Lean Sigma deployment To provide a truly integrated, structured improvement methodology To introduce a range of techniques for improving process flow and efficiency, & reducing variability within manufacturing processes To ensure the sustainability of process improvements To achieve significant improvements during the training programme
ACCREDITATION PROCESS
<p>This programme includes an accreditation process that includes a project, multi-choice examination and project presentation.</p>
PROGRAMME FEES
<p>£3,600+VAT per delegate, includes:</p> <ul style="list-style-type: none"> All materials Lunches and refreshments Accreditation

PROGRAMME CONTENT			
Lean Sigma Essentials			
August 16	August 17	August 18	August 19
<p>Introduction to Lean Sigma</p> <ul style="list-style-type: none"> Programme introduction Objectives & origins of Lean Sigma The value of an integrated approach Understanding value, waste & process variability Developing a Lean Sigma improvement strategy & implementation plan Policy deployment & performance measurement 	<p>Lean Sigma Foundations</p> <ul style="list-style-type: none"> Building a sustainable CI improvement culture 5S workplace organisation Creating a visual workplace Daily management Structured approaches to improvement Sources & types of manufacturing Problems: flow & consistency The DMAIC approach – a single structure Lean Sigma roadmap & toolkit 	<p>DMAIC Structured Improvement Methodology</p> <ul style="list-style-type: none"> DMAIC improvement exercise Defining & scoping the problem Mapping, measuring & assessing processes Analysing the facts & finding the root causes Improving the process with creative solutions Implementing, sustaining & replicating the gains Reviewing performance 	<p>Initiating Lean Sigma Projects</p> <ul style="list-style-type: none"> Project identification, scoping & selection Project planning & getting started Project reviews & support Measuring project success Action planning Block 1 assessment, summary & review
Focus On Consistency			
September 7	September 8	September 9	September 10
<p>Measuring Process Variability</p> <ul style="list-style-type: none"> Using the DMAIC process to improve process variability Basic statistics Introduction to Minitab Measurement System Analysis (R&R Studies) Graphical analysis Capability analysis 	<p>Analysing Process Variability</p> <ul style="list-style-type: none"> Statistical analysis techniques Introduction to hypothesis testing Introduction to regression analysis Identifying key process input variables using Design of Experiments (DOE) 	<p>Improving & Controlling Process Variability</p> <ul style="list-style-type: none"> Improving process performance using DOE Introduction to screening techniques & Taguchi experiments Controlling process variability using SPC control charts 	<p>Leadership & Change Management</p> <ul style="list-style-type: none"> Managing organisational change The dynamics & process of change Building commitment to change Leading, building & coaching effective improvement teams Action planning Block 2 assessment, summary & review
Focus on Flow			
October 4	October 5	October 6	October 7
<p>Value Stream Mapping & Improving Process Flow</p> <ul style="list-style-type: none"> Using the DMAIC process to improve process flow Introduction to Value Stream Mapping Drawing & evaluating the current state map Lean techniques for improving process flow Creating the future state map Developing the improvement plan 	<p>Improving Overall Equipment Effectiveness</p> <ul style="list-style-type: none"> Measuring & improving Overall Equipment Effectiveness Total Productive Maintenance (TPM) Implementing autonomous maintenance Rapid Changeover Techniques (SMED) 4-Step changeover reduction Changeover improvement activity 	<p>Mistake Proofing & Cellular Manufacturing</p> <ul style="list-style-type: none"> Achieving zero defects with Mistake Proofing (Poka Yoke) Mistake Proofing in manufacture, design & the office Factory layout & cellular manufacturing Introduction to lean supply chains Factory simulation & improvement activity 	<p>Project Closure & Sustainability</p> <ul style="list-style-type: none"> Project closure & sign-off Building sustainability (process audits, ongoing performance reviews etc) Green Belt certification requirements: final project reports & presentations Action planning Block 3 assessment, summary & review
	TBA	TBA	
	<p>On-Site Project Review</p> <ul style="list-style-type: none"> Project review at delegate's workplace Coaching & support for final report & presentation 	<p>Certification Event</p> <ul style="list-style-type: none"> Final project presentations Programme summary & review Award of certificates 	