

Six Sigma Business Green Belt

January 2019 programme:

Block 1: Jan 14 to 16

Block 2: February 13 to 15

Block 3: March 11 to 13

March 2019 programme:

Block 1: Mar 13 to 15

Block 2: Apr 9 to 12

Block 3: May 15 to 17

Duration: 10 Days
(9 Days for Jan programme)

Fee: £2025+VAT

Includes:

- Comprehensive training manual
- Smallpeice accreditation
- Lunches and refreshments
- Lean Sigma toolkit
- Access to Lean Sigma website

How to Book:

Call +44(0)1926 336423

Email train@smallpeice.com

Visit www.smallpeice.com

Venue:

Smallpeice is in central UK (Leamington Spa – CV32 4ES), with easy access:

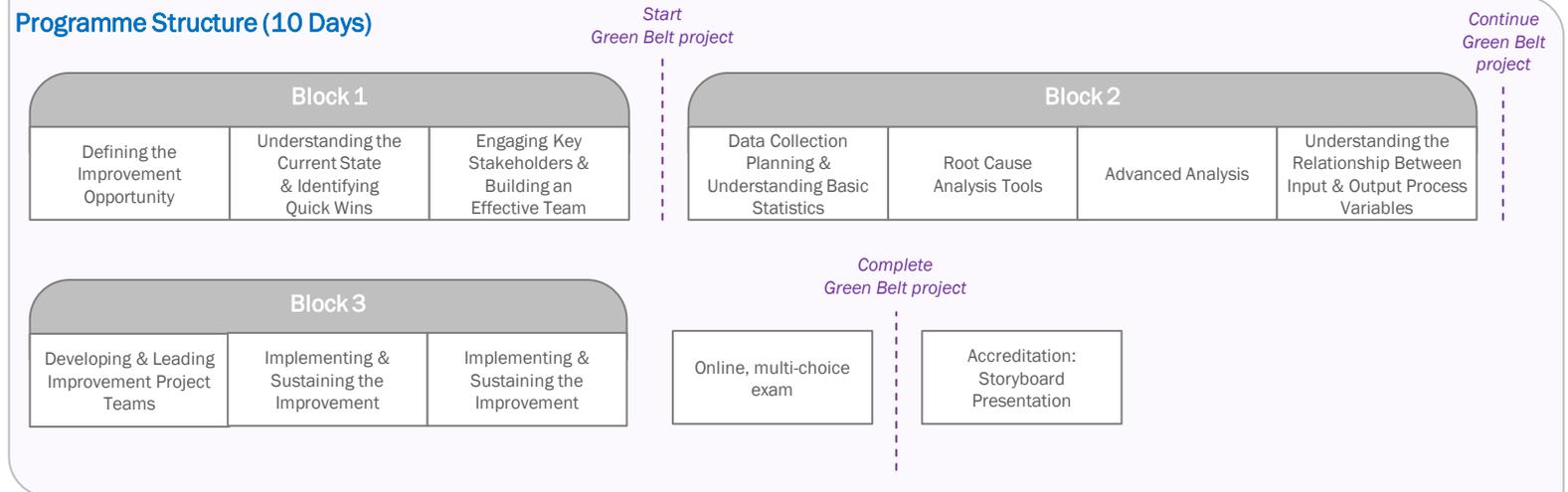
- by road: from the M40
- by rail: a 5-minute taxi journey from Leamington Spa station
- by air: just 25 minutes from Birmingham Airport

Introduction

This programme integrates Lean and Six Sigma to provide a powerful improvement model that concentrates on both reducing cycle time and variability. The programme is based on a modular format which combines training inputs and practical simulation activities with an ongoing focus on project progress and reviews. The training objectives focus on enabling delegates to:

- lead projects that deliver tangible organisational benefits
- be familiar and confident with the key tools and techniques of Lean Sigma and understand how to use them within day-to-day activities
- be effective team members on any Lean Sigma project team

Programme Structure (10 Days)



Accreditation

The Smallpeice accreditation process requires completion of a project for formal assessment and passing a multi-choice exam. The exam can be taken online after training is completed (revision and practice questions are also provided).

BQF Accreditation Option

Smallpeice courses are also licensed to BQF (British Quality Foundation) standards, enabling candidates to achieve this external accreditation. The accreditation steps are as described above, with an additional £250 fee to cover the BQF licensed accreditation route.

Coaching & Support

Coaching and support is available in the form of structured face-to-face coaching, or remote support via webex / phone. We also offer a pre-accreditation check which provides a detailed review of projects prior to accreditation submission. Please call to discuss these options in more detail.

Detailed programme overleaf



Detailed Programme of Content

Detailed Programme of Content				
BLOCK 1	Day 1	Day 2	Day 3	
	Defining the Improvement Opportunity	Understanding the Current State & Identifying Quick Wins	Engaging Key Stakeholders & Building an Effective Project Team	
	<p>Programme Introduction & Objectives</p> <ul style="list-style-type: none"> Improvement project roles and responsibilities <p>The Improvement Roadmap</p> <ul style="list-style-type: none"> Introduction to the lean sigma approach The DMAIC project roadmap Project selection criteria Where are the biggest opportunities? Pareto analysis Application of the DMAIC toolkit in daily work <p>The Define Phase</p> <ul style="list-style-type: none"> Introduction to the define phase Initiating a project charter & writing problem statements Setting improvement objectives Scoping the project - the Y=f(x) cascade Mapping the high level process – SIPOC mapping <p>Understanding the Voice of the Customer</p> <ul style="list-style-type: none"> Understanding our customers Techniques for collecting and analysing the voice of the customer Defining critical to quality characteristics Finalising the project charter 	<p>The Measure Phase</p> <ul style="list-style-type: none"> Introduction to measure phase The difference between process bias and data bias projects – navigating the roadmap <p>Understanding the Current State</p> <ul style="list-style-type: none"> Defining value and waste: the 8 business process wastes Defining value streams Mapping the current state for business processes Facilitating mapping activities – hints and tips <p>Detail Process Mapping Tools</p> <ul style="list-style-type: none"> Detail process mapping tools overview Role of process mapping in DMAIC projects Process flow and sequence charting techniques Identifying and implementing quick wins <p>Identifying Potential Process Issues</p> <ul style="list-style-type: none"> Identifying weaknesses in the process Use of failure mode effects analysis (FMEA) to identify potential opportunities for defects Evaluating, reducing & managing risk 	<p>Enablers for Project Success</p> <ul style="list-style-type: none"> Pre-requisites for project success Analysing the enablers and barriers using force field analysis Building and communicating the business case <p>Securing Project Sponsorship</p> <ul style="list-style-type: none"> The role of the project sponsor Identifying and engaging senior support Setting a sponsorship contract <p>Engaging Key Stakeholders</p> <ul style="list-style-type: none"> Stakeholder analysis tools Understanding what motivates people Dealing with initial resistance Influencing skills <p>Building and Managing the Project Team</p> <ul style="list-style-type: none"> Who should be involved in the project? The role of the Belt as facilitator Building an effective team Assigning roles Developing the project plan 	
BLOCK 2	Day 4	Day 5	Day 6	Day 7
	Data Collection Planning & Understanding Basic Statistics	Root Cause Analysis Tools	Advanced Analysis	Understanding the Relationship Between Input & Output Process Variables
	<p>Data Collection Planning</p> <ul style="list-style-type: none"> Selecting what to measure Key considerations for data collection planning Deciding how to collect the data Using effective operational definitions Checking the measurement system <p>Introduction to Basic Statistics</p> <ul style="list-style-type: none"> Measures of location; variation and proportion Introduction to probability <p>Visualising the Data</p> <ul style="list-style-type: none"> Introduction to Minitab software What shape is your data? Histograms Visualising descriptive statistics: graphical summary tool <p>Assessing Process Control</p> <ul style="list-style-type: none"> What is happening over time? Time series plots Introduction to process control & control charts 	<p>Assessing Process Capability</p> <ul style="list-style-type: none"> Understanding process capability Introduction to calculating process capability for continuous and attribute data Selecting appropriate capability metrics & indices <p>The Analyse Phase</p> <ul style="list-style-type: none"> Introduction to the analyse phase Process and data analysis roadmaps <p>Verifying the Root Cause: Data Analysis Toolkit</p> <ul style="list-style-type: none"> Taking a structured approach to data analysis Writing an analysis plan Link to cause and effect diagram 5 Why approach to problem solving Stratifying the data – use of box plots Are there any relationships? Scatter diagrams Non-graphical methods for verifying the root cause Tips for summarising and presenting the analysis 	<p>Advanced Graphical Analysis Tools</p> <ul style="list-style-type: none"> SPC charts for variable and attribute data Use of Z-values and sigma values as capability metrics in a business environment Understanding and fitting probability distributions Dealing with non-normal data <p>Introduction to Hypothesis Testing</p> <ul style="list-style-type: none"> Use of inferential statistics Understanding confidence intervals Developing statistical hypotheses Setting confidence levels – understanding sampling risk Running and interpreting hypothesis test for variable and attribute data Managing power & sample size Practical application of hypothesis testing – case studies and examples 	<p>Introduction to Regression Analysis</p> <ul style="list-style-type: none"> Understanding correlation Introduction to simple linear regression Application in lean sigma projects <p>Optimisation Processes: Design Of Experiments</p> <ul style="list-style-type: none"> Introduction to designed experiments (DOE) Applications of DOE techniques Conducting a simple DOE experiment
BLOCK 3	Day 8	Day 9	Day 10	
	Designing a Lean Future State	Developing & Leading Improvement Project Teams	Implementing & Sustaining the Improvement	
	<p>Process Analysis: Developing a Future State</p> <ul style="list-style-type: none"> Scoping improvement activity Developing a future state map Creating flow and just-in-time processing Mistake proofing <p>Developing Alternative Solutions</p> <ul style="list-style-type: none"> Challenges of the improve phase Innovation tools Generating alternative solutions <p>Developing the Improvement Plan</p> <ul style="list-style-type: none"> Application of FMEA to the future state Optimising the solution Developing the improvement plan 	<p>Leading & Developing Improvement Teams</p> <ul style="list-style-type: none"> Characteristics of effective teams & stages of team development Developing performing teams through effective leadership <p>Facilitating for Maximum Results</p> <ul style="list-style-type: none"> Running effective workshops & meetings Managing conflict / dealing with challenging people & situations Adapting communications for groups <p>Implementing Change</p> <ul style="list-style-type: none"> Putting the plan into action Understanding people's response to changes in their ways of working <p>Embedding Change</p> <ul style="list-style-type: none"> Maintaining momentum Transferring ownership & anchoring the change 	<p>Selecting & Validating Solutions</p> <ul style="list-style-type: none"> Solution selection, testing & piloting Check list for solution validation implementation planning Piloting & solution introduction <p>Solution Introduction & Control</p> <ul style="list-style-type: none"> Developing a control plan Prevention & detection systems Choice of control method Out of control action planning Creating a visual workplace The role of standards and process confirmation Handover & transferring benefits Planning for continuous improvement 	