



# Lean Six Sigma **Master Black Belt**

2024



- Starts November 21<sup>st</sup> 2024
- Accredited programme
- Live virtual training
- Personal coaching support

# Development & Accreditation Programme for Lean Six Sigma Deployment Leaders



## Introduction

The role of Master Black Belt is critical to a successful and sustainable deployment of Lean and Six Sigma. This is the person who will not only coach and mentor Black and Green Belts but will provide the links for the Lean Six Sigma Project activity to Management and Leadership teams.

Many companies recruit external Master Black Belts at premium market rates, when a more effective (and economic) solution is to build your own internal resource. Offering this special development opportunity to your high-performing Black Belts will also ensure complete alignment of the MBB role with your Lean Six Sigma company culture, as well as developing your future business leaders.

The Smallpeice Lean Six Sigma Master Black Belt programme provides the optimum balance between technical and deployment issues, and the essential leadership, change management and advanced coaching and training skills. As a result of the training and exposure to a wide and diverse range of project activity across all business processes, the Master Black Belt can be a powerful development role for Senior Managers of the future.

“

*Loved the training. I'm feeling very energised, motivated and empowered to make a difference in my company and drive change.*

”

“

*The course is well planned and the trainers have been excellent in bringing ideas out of us. I particularly like how they challenge and stretch us.*

”



# Competency-based Assessment Framework



Our programme recognises that the role of the Master Black Belt differs between organisations. We provide a framework for certification that ensures all of our Master Black Belts are equipped and able to demonstrate the required level of technical knowledge and core skills whilst providing sufficient flexibility to ensure the belt's development areas and portfolio of evidence are aligned to the their particular role within their employer organisation.

Formal accreditation recognises the achievement and demonstrated learning and application in the MBB competencies. MBBs prepare a portfolio of evidence from the activities delivered across the period of their learning (typically 6 – 12 months), and need to sit and pass the MBB exam.

## The programme focuses on 6 core competencies:

### **Performance Manager:**

The ability to design, lead and continuously improve the deployment of a Lean Six Sigma Programme

**1**

### **Change Agent:**

Be an inspirational and credible leader of change programmes

**2**

### **Coach & Mentor:**

Have the toolkit to understand the individual needs of coachees and be able to coach and mentor others at all levels in the company

**3**

### **Adult Educator:**

Be able to design and deliver engaging and effective Lean Six Sigma Training

**4**

### **Tool Master:**

Demonstrate technical expertise in a wide range of Lean Six Sigma tools and techniques

**5**

### **Project Leader:**

Ability to apply a full range of methodologies to deliver complex, improvement projects or transformation programmes

**6**

# Programme Structure & Content



The programme represents 6 days of live 'core modules' and up to 6 days of additional, optional technical training sessions. Each training module runs for a full day and is delivered virtually.

## MANDATORY CORE Training (6 days)

**November 21<sup>st</sup> 2024**  
(8.30am – 4.30pm BST)

### DAY 1: MBB ROLE & DEPLOYMENT GOALS

- MBB role & interactions
- MBB core competencies
- Building your PDP
- Company presentations – sharing current status, challenges and deployment models
- Building a learning network

**November 22<sup>nd</sup> 2024**  
(8.30am – 4.30pm BST)

### DAY 2: INSPIRATIONAL CHANGE LEADERSHIP

- Behavioural aspects of change
- Anticipating impact of change
- Legacy vs personality
- Kotter's Model & ADKAR
- Experience & lessons learned
- Promoting a change culture
- Leadership style
- Role modelling for success

**December 11<sup>th</sup> 2024**  
(8.30am – 4.30pm BST)

### DAY 3: COACHING SKILLS

- Styles of coaching/ mentoring
- Core coaching skills
- Giving & receiving feedback
- A structure for coaching/mentoring
- Non-verbal behaviours & building rapport
- Skills practice

**December 18<sup>th</sup> 2024**  
(8.30am – 4.30pm BST)

### DAY 4: ADULT EDUCATOR

- Learning process & styles
- Effective facilitation & tools
- Application in MBB role
- Learn Teach Learn Concept
- Short presentation delivery
- Receiving/providing feedback
- Lessons learnt for next time

**January 16<sup>th</sup> 2025**  
(8.30am – 4.30pm BST)

### DAY 5: DEPLOYING A NEW LSS PROGRAMME

- Designing your deployment
- Alternative models
- Aligning with business goals
- Hoshin Kanri / X-Matrices
- Common challenges
- Building a business case
- Scanning the environment and analysing risk

**January 17<sup>th</sup> 2025**  
(8.30am – 4.30pm BST)

### DAY 6: MANAGING EXISTING PROGRAMMES

- MBB as performance manager
- Setting programme metrics
- Resources, people, communication
- Maintaining a project pipeline
- Principles beyond DMAIC
- Building sponsorship
- Tracking and reporting benefits

## OPTIONAL 'top-up technical training' (up to 6 days)

Dates by arrangement  
(8.30am – 4.30pm BST)

### MSA FOR MANUFACTURING PROJECTS

- Type I & II studies for repeatability & reproducibility
- Nested gauge R&Rs
- Linearity & calibration bias
- Assessing stability
- Attribute agreement analysis: pass/fail

Dates by arrangement  
(8.30am – 4.30pm BST)

### PROCESS CAPABILITY & PROCESS CONTROL

- Understanding process control
- Anatomy & use of control charts
- Process capability for continuous and attribute data
- Selecting appropriate capability metrics & indices

Dates by arrangement  
(8.30am – 4.30pm BST)

### ADVANCED STATISTICAL APPROACHES

- Probability distributions for variable and attribute data
- Dealing with non-normal data
- Statistical process control charts for non-normal data
- The central limit theorem
- Using data transformations

Dates by arrangement  
(8.30am – 4.30pm BST)

### OPTIMISING THE PROCESS

- Regression analysis
- Understanding correlation
- Introduction to simple linear regression
- Application in Lean Sigma projects
- Introduction to multiple regression

Dates by arrangement  
(8.30am – 4.30pm BST)

### SCREENING & TAGUCHI METHODS

- Introduction to fractional factorial
- Screening designs
- Advanced techniques e.g. EVOP, RSM
- Taguchi loss function
- Taguchi designs that deliver robust solutions in the presence of noise

Dates by arrangement  
(8.30am – 4.30pm BST)

### ADVANCED DOE TECHNIQUES

- Mixed and multi-level designs
- Response surface designs
- Botched runs
- Randomisation and grey coding
- DOE with historical data

# Coaching & Support



For each candidate, the MBB journey is unique and provides a personalised blend of different learning and development – fully supported by mentoring sessions with our expert team of coaches. Coaching interventions include:

## In-Programme Coaching:

Your training programme includes a package of 3 x 1 hour coaching sessions, which are delivered on a one-to-one basis with the programme leader. The coaching sessions are conducted virtually, and scheduled at the appropriate milestones within your programme of development.

## Personal Development Plan Support:

When the core training modules are completed, we will arrange a separate 1 hour review with the programme leader to focus on jointly developing and agreeing your personal development plan for certification.



## Programme Fees

### **Core Training, Mentoring & Accreditation – £2850+VAT**

- This fee includes:
  - 6 days of live core training (delivered virtually)
  - 3 hours of 1-to-1 mentoring sessions with a Smallpeice coach
  - 1 hour 1-to-1 PDP review
  - Final assessment & accreditation

### **Optional Technical Training Modules - £190+VAT per 1 day module**

- Depending on your current skillset, you may require additional technical training which will be selected from a menu of 6 x 1 day modules.
- See page 4 for optional module content.

## Booking Process

- Only accredited Lean Six Sigma Black Belts are eligible to attend. Evidence of accreditation must be provided at enrolment stage.
- Please email Smallpeice via [train@smallpeice.com](mailto:train@smallpeice.com) with your enquiry/requirements. Our admin & booking team will then liaise with you to answer any queries, provide further information, complete the booking confirmation process
- Or 'phone on +44 (0)1926 336423

## Payment Terms

- An invoice will be issued following receipt of a confirmed booking
- Payment is due 30 days from the invoice date.
- Payment can be made via credit card or bank transfer. Payment details can be found on the invoice.

## Terms & Conditions

If you should have to cancel a registration, the following options are available:

- Send a substitute delegate at no additional charge
- Incur a cancellation fee based on the following timescales:
  - If you cancel prior to 30 working days before the course you will be charged a cancellation fee of 20% of the course fee
  - If you cancel less than 30 working days, but prior to 10 working days before the course, you will be charged a cancellation fee of 50% of the course fee
- We regret that we cannot accept cancellations that are received less than 10 working days before the course start date. Please confirm your cancellation in writing
- Please confirm your cancellation in writing.

Smallpeice Enterprises reserves the right to cancel courses if necessary. Delegates will be given advance notice of any such changes. Please do not send payment with this form – an invoice will be despatched.



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**Smallpeice Enterprises**  
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For more details on the  
Smallpeice training curriculum,  
please email us [train@smallpeice.com](mailto:train@smallpeice.com)

**Lean Six Sigma**

**Lean**

**New Product Development**

**Business & Management**