



# Black Belt Training Programme

**Our highly acclaimed Black Belt training provides a practical, pragmatic and comprehensive experience that fully equips delegates to work in manufacturing, transactional, or service environments**

## Black Belt Certification

Our programme is fully accredited by the British Quality Foundation Certification involves attending the training, passing the BB exam, completing 2 projects, and presenting project storyboards to one of our BQF assessors.

**We are very happy to provide project coaching support if required.**



**The programme is made up of several modules:**

- Module 1**  
Green Belt Foundation (5 days)
- Module 2**  
Data Analysis & Statistical Problem Solving Using JMP® (3 Days)
- Module 3**  
Advanced Modelling & DOE (3 Days)
- Module 4**  
Optional Module - Change Leadership (2 Days)
- Module 5**  
Optional Module - Design For Lean Six Sigma (2 Days)

**We are very happy to have delegates who have already completed Green Belt training elsewhere and are looking to upgrade to Black Belt**

See overleaf for module outlines

## Module Outlines

### 1. Green Belt Foundation

#### This module covers

- The DMAIC method - A structured process for problem-solving
- How to define and scope DMAIC projects
- A comprehensive set of Lean Six Sigma tools to solve variability, flow and waste problems
- Key project management and team working skills

**Note:** *this module does not require the use of statistical software.*

### 2. Data Analysis & Statistical Problem Solving Using JMP

Delegates learn how to quickly solve real life variability problems using Visual Six Sigma with JMP statistical software.

#### Training includes:

- Practice using JMP® software
- Cleansing and manipulating data ready for analysis
- Using Visual Analysis to identify relationships
- Understanding statistical relationships
- Understanding variability & process capability
- Conducting Measurement system analyses
- Statistical modelling

### 3. Advanced Modelling & DOE

Delegates learn how to build predictive statistical models from historic data and to design experiments and data collection to get the maximum useful information with minimum disruption and effort.

#### On this training delegates will:

- build predictive statistical models
- run statistical simulations
- understand the concepts & types of DOE
- use JMP custom design approach to generate designs
- analyse DOE results, evaluate & optimise the designs
- augment designs

### 4. Change Leadership (Optional Module)

The toughest part of the BB role is “making change happen”. This work-shop will give you the tools and techniques that really make a difference to become a better change leader.

- Communicate effectively to mobilise change
- Align everyone behind a common purpose
- Influence with integrity
- Build rapport and trust with key stakeholders
- **Increase your business impact.**

### 5. Design For Lean Six Sigma (Optional BB Module)

Delegates will learn how to design new products & services that meet customer needs, deliver competitive advantage and are launched fit for purpose right first time. The training covers the DMADV methodology and a comprehensive set of supporting tools (*including QFD*)



### Why JMP®?

JMP® software allows BBs to explore data and communicate results in a dynamic and visual way that completely demystifies data analysis.



It is highly interactive, intuitive and easy to use.

JMP® has an outstanding DOE platform and a range of other great features that make it the most appropriate software for Black Belts that want to solve real world problems.

With JMP® BBs can double their productivity and benefits delivery compared with other options.