

Aimed at

This course is suitable for improvement practitioners who are passionate about solving problems.

Course description & subjects covered

The Six Sigma Black Belt provides learners with the skills to manage and deliver process improvement projects. During the programme you will lead a Six Sigma project following DMAIC framework, including data collection, advanced statistics, root cause analysis and the quantification and selection of appropriate solutions

The DMAIC Framework

The DEFINE Phase

- Six Sigma overview
- How to write a Project Charter
- Stakeholder Analysis
- Creating a SIPOC
- Voice of the Customer Explained
- VOC Collection Plan

The IMPROVE Phase

- Generate potential solutions
- Creativity Techniques
- Select the best solutions
- Paired comparisons
- Weighted criteria
- Risk assessment formats
- How to pilot
- Where to pilot

Assessment

This course includes a project based assessment and an exam.

Entry requirements

Learners will need to be in a position where you have the opportunity to lead an improvement project team.

Cost

Fully funded through PLA Funding*

**Eligibility criteria applies - please contact us for further information*

The MEASURE Phase

- Lean vs Six Sigma
- Basic Statistics explained
- Data Collection Plans/Methods
- How to check Data Quality
- Understanding Process Behaviour
- Process Capability
- What is Six Sigma?

The CONTROL Phase

- Implement ongoing measures
- Control plans
- KPI trees
- Standardisation methods
- Creating SOPs
- Quantify the improvement
- Before vs after analysis
- How to close a project
- Closure action log

The ANALYSE Phase

- Process & Value Stream Mapping
- The 7 Wastes
- Measles Charts
- Ishikawa Charts
- Affinity Diagrams
- Graphical Techniques
- Hypothesis & normality testing
- Correlation & regression analysis
- Design of experiments

