

# Six Sigma - Black Belt

The Six Sigma Black Belt course is designed to provide learners with the skills to manage and deliver process improvement projects.

During the programme, delegates 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.

# **Entry Requirements**

Delegates must be employed in a position where they will have the opportunity to lead an improvement project team.

# **Career Prospects**

Successful delegates will gain increased opportunities to progress into senior Continuous Improvement or Six Sigma positions. Delegates also gain the opportunity to achieve the Six Sigma Master Black Belt certificate.

#### **Course Modules**

This course covers the five stages of Six Sigma with additional focus on managing and delivering process improvement projects. This course covers:

#### Define

- Be able to describe the characteristics of effective teams
- Understand how to maintain effective working relationships
- Understanding the roles within effective teams
- Complete a Team Role Analysis Questionnaire
- Describe the importance of communication
- Complete a Team Effectiveness Study

#### Measure

- Sample sizes & types of data
- Stratification, disaggregation & experimentation
- Common measurement problems
- Gauge R&R Study

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- Process Capability & Statistical process control continued
- Cp & Cpk Interpretation

## Analyse

- Regression & Correlation analysis
- Design of Experiments
- Hypothesis Testing

### Improve

- Leading Change
- Change Response Types
- Influencing & Conflict Resolution
- Project Monitoring & Review

#### Control

- Effective project handover
- Standardised Work Combination Table, Standard Work Chart
- Benefits realisation
- Ongoing project Monitoring
- Final review

#### **Assessment**

This course is assessed via:

- Project Presentation
- Portfolio Assessment

#### **STUDY MODE**

PT

### **LOCATION**

### **COURSE LENGTH**

2W

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