

## **Aim of the programme**

This one-day programme will give delegates a solid understanding of Six Sigma and Design for Six Sigma principles and develop their knowledge such that they will be able to apply a selection of best practice tools to improve existing products/processes and design new ones.

It provides a foundation for further development in Six Sigma at all levels up to Master Black Belt and also complements the lean overview course.

Six Sigma is a disciplined, data-driven approach and methodology for eliminating defects in any process and it seeks to improve the quality of process outputs by identifying and removing the causes of defects (errors) and minimizing variability in the process.

As a result of attending the course, delegates will be able to:

- Understand the fundamentals of Six Sigma and Design for Six Sigma
- Recognise best practice deployment of Six Sigma
- Select and scope a meaningful and manageable Six Sigma project
- Select appropriate Six Sigma methodologies to deliver robust, defect free products and processes
- Use a selection of key tools

## **Who is the course for?**

This one-day awareness course is designed for delegates who wish to gain a solid understanding of Six Sigma and Design for Six Sigma methods, enabling them to apply best practice tools and confidently deliver a Six Sigma related project.

## **Content – 1 day**

The course includes the following core themes:

- What is Six Sigma
  - o Brief history of Six Sigma
  - o Timelines, Definitions, Deployment model and guidelines
- Six Sigma Methodologies for Problem Solving and Process Improvement
  - o Define, Measure, Analyse, Improve, Control (DMAIC)
  - o Define, Measure, Analyse, Design, Verify (DMADV)
  - o Identify, Design, Optimise, Validate (IDOV)
- Six Sigma Tools and Techniques
  - o Problem and Opportunity Statements
  - o Critical to Quality Trees (CTQ)
  - o Measurement System Analysis (MSA)
  - o Minitab Histograms and Box Plots
  - o Design of Experiments (DOE)
  - o Control Charts

## **Structure of the programme**

This is a one day course that will consist of presentations, led discussion and short workshop sessions. No specific qualifications/experience is required.