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## Six Sigma Yellow Belt Training Three Day Workshop

### Learning Objectives:

- Understand the philosophy and terminology of Six Sigma
- Recognise what benefits Six Sigma can achieve
- Understand the DMAIC Improvement roadmap
- Recognise the benefits of a structured process for solving problems
- Utilise the Seven Basic Tools to analyse and present data
- Understand some of the foundational statistics for data analysis
- Utilise the Minitab software for statistical analysis of data

### Day 1

9.00 Start

Key note introduction – Why Six Sigma is important to *Company*  
- By *company* Senior Manager(?)

Introductions and course objectives

Introduction to Six Sigma

- What is Six Sigma?
- Six Sigma metric
- Where can it be applied?
- What are the benefits?
- Six Sigma “belts”

10.30 Coffee (20 minutes)

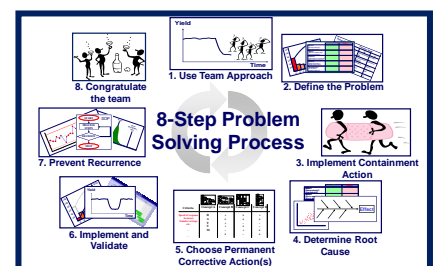
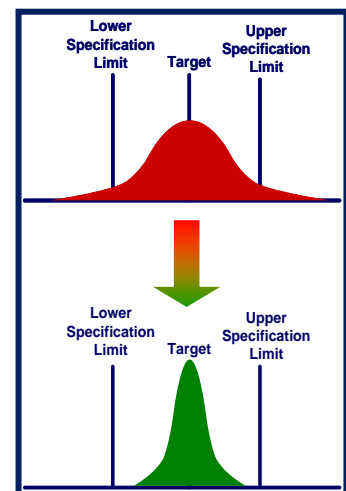
8 Step Problem solving process

Seven Basic tools for Quality Improvement - part 1

- Check sheets
- Pareto Diagram
- Review Problem Solving (**Steps 1,2,3**)

12.30 Lunch (45 minutes)

Workshop 1



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15.00 Coffee (20 minutes)

Report back on workshop

Seven Basic tools for Quality Improvement - part 2

- Cause and Effect diagram
- Histograms
- Scatter Diagram
- Review Problem Solving (**Step 4**)

17.00 Close

## Day 2

9.00 Start

Review Day 1

Workshop 2

10.30 Coffee (20 minutes)

Report back on workshop

Seven Basic tools for Quality Improvement - part 3

- Runchart
- Flowchart
- Review Problem Solving (**Steps 5**)

Workshop 3

12.30 Lunch (45 minutes)

Report back on workshop

Review Problem Solving (**Steps 6,7,8**)

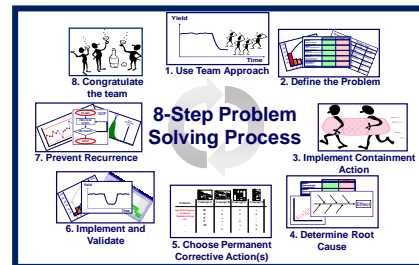
Workshop 4

15.00 Coffee (20 minutes)

Team presentations: Problem Solving “Storyboard”  
Summary of Problem Solving

Introduction to Minitab

17.00 Close



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### **Day 3**

**9.00** Start

Foundational Statistics (Minitab)

- Measures of location and dispersion
- Descriptive Statistics
- Inferential Statistics

**10.30** Coffee (20 minutes)

Normal Distribution (Minitab)

Testing for Normality (Minitab)

**12.30** Lunch (45 minutes)

Workshop – Data Mining

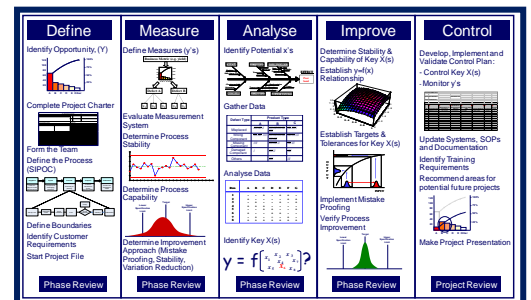
DMAIC Roadmap for Process Improvement

**14.30** Coffee (20 minutes)

Company DMAIC Case Studies

Closing Discussions

**16.00** Close



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