

Six Sigma Tools & Techniques

Computer based e-Learning course

Overview

The Six Sigma movement has coined the titles 'Black Belt' and 'Green Belt' to describe various levels of skill and responsibility people have for their Six Sigma program. This course is aimed at aspiring Black Belts and all Green Belts, together with anyone who requires an understanding of the Six Sigma Tools & Techniques.

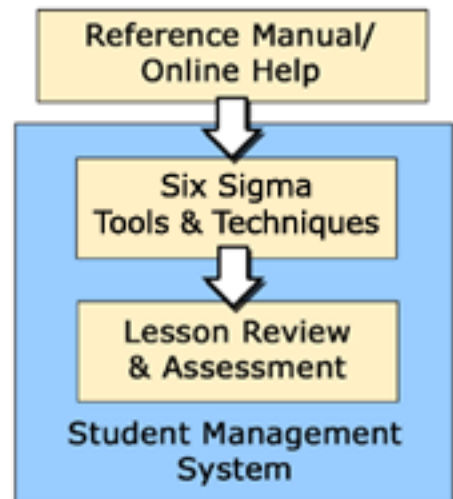
The Course

Incorporating interactive learning methods including drag & drop exercises and multiple choice questions throughout.

Illustration & animation used to help describe the theories behind Six Sigma.

Simple step by step progress through the course enabling easier understanding of more complicated areas.

Course Structure



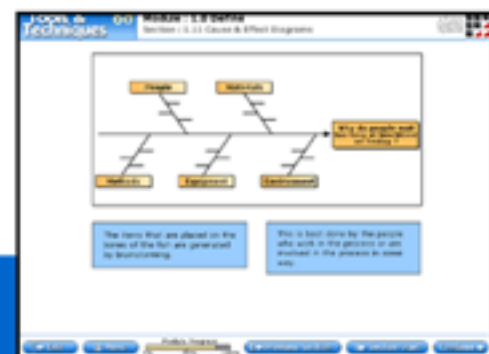
Benefits of e-Learning

- ➔ The training can be delivered at any time and at any location that is required.
- ➔ The training is easily integrated with existing education programmes.
- ➔ The modules offer an ongoing source of reference and refresher training.

Target Audience

This course is aimed at anyone involved in or affected by process improvement projects in a Six Sigma environment.

A Six Sigma Introduction course is also available for introducing the concepts of Six Sigma, and is an ideal precursor to this Tools & Techniques course.



Six Sigma Tools & Techniques

Computer based e-Learning course Module Listing

Six Sigma Tools & Techniques

Define

Objectives	Process Performance Measures
Scoping a Six Sigma Project	Measurement & Attribute Data
Roles & Responsibilities	Flowcharts
Understanding Cust. Req'ments	Cause & Effect Diagrams
Matrix Diagrams	Summary
Process Improvement Statments	Lesson Review
Operational Definitions	

Measure

Objectives	Evaluating Measurement System
Stratification	Accuracy & Precision
Sampling	Process Capability (Cp & Cpk)
Data Collection Sheets	Calculating Current Sigma - Performance
Run Charts	Summary
Common & Special Causes	Lesson Review
Control Charts	

Analyse

Objectives	Pareto Analysis
Histograms	Multi-vari Analysis
Patterns in Histograms	Designed Experiments
Scatter Diagrams	Summary
Relationships in Scatter Diagram	Lesson Review
Stratification	


Improve

Objectives	Cost Benefit Analysis
Generating possible solutions	Failure Modes & Effect Analysis
Affinity Diagrams	Summary
Selecting Solutions	Lesson Review
Proposed Solution Matrix	

Control

Objectives	Monitoring
Standardisation	Summary
Control Plan & Documentation	Lesson Review

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Tools & Techniques 4.2 Module 4.2 Improve Section 4.2 Failure Modes and Effect Analysis (FMEA)

Of the following, which is a possible function of a retail vending machine at a retail outlet?

- To provide customers with total authority to travel.
- To reduce queues at the retail outlet office.

Correct. The other vending outlets in a shop are a support of the machine rather than a function. If the machine fails, it has either an increased opening time for customers.



Tools & Techniques 5.2 Module 5.2 Control Section 5.2 Standardisation

5.2 Standardisation Part 1

The Control phase is where plans are put in place to ensure that the gains you have made during the improve phase are held.

To make sure that these are not lost through lack of attention.