Six Sigma Curriculum

Computer based e-Learning Courses

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 a good understanding of the Six Sigma methodology and all of the relevant tools that support it, without the clutter of overly technical language.

The Curriculum

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

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

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

Online Help and Reference Manuals are available. Students can download a comprehensive summary of each course for use as ongoing reference material.

Curriculum Structure

- Introduction to Six Sigma
- Lesson Review & Assessment
- Six Sigma Tools & Techniques
- Lesson Review & Assessment

Student Management System

Benefits of e-Learning

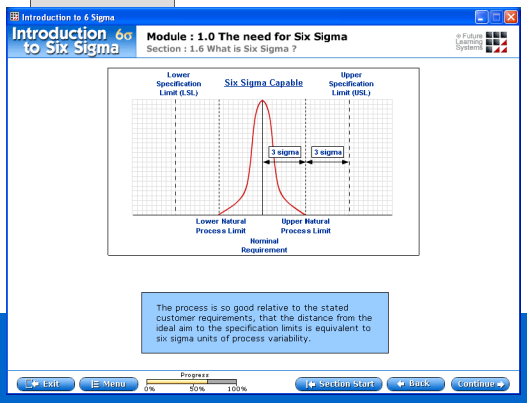
- The training can be delivered at any time and at any location that is required.
- The training is easily integrated with existing educational programmes & work experience.
- The modules offer an ongoing source of reference and refresher training.
- Successful completion of courses & tests implies a set level of understanding.
- Provides a cost effective training solution.

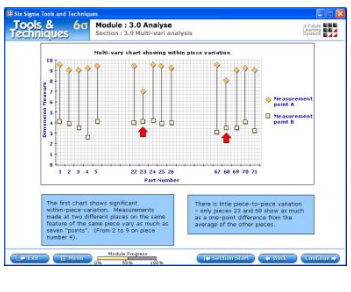
14 Hrs Duration Approx.

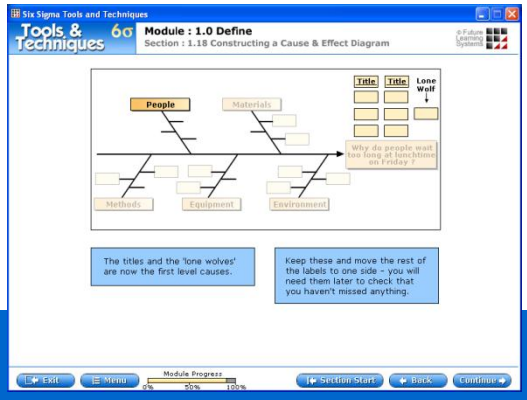
Target Audience

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

Typically this might be:
Managers, Operational Leaders, Transformation Managers, Trainers, Six Sigma Team Members, Financial Managers, Administrative Staff, Independent Consultants, & Aspiring Six Sigma Experts.







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Module Listing

Introduction To Six Sigma	**The Need For Six Sigma**	Objectives; Six Sigma Overview; The Need For Six Sigma; Processes; Variation; What is Six Sigma; Summary; Lesson Review.
	The Six Sigma Framework	Objectives; The Six Sigma Framework; The Process View; Core & Support Processes; Business Goals; Process Metrics; Cost of Poor Quality; Project Selection; Systematic Approach (DMAIC); Summary; Lesson Review.
Six Sigma Tools & Techniques	**Define**	Objectives; Scoping Six Sigma Projects; Roles & Responsibilities; Understanding Customer Requirements; Matrix Diagrams; Process Improvement Statements; Operational Definitions; Process Performance Measures; Measurement & Attribute Data; Flowcharts; Cause & Effect Diagrams; Summary; Lesson Review.
	Measure	Objectives; Stratification; Sampling; Data Collection Sheets; Run Charts; Common & Special Causes; Control Charts; Evaluation Measurement System; Accuracy & Precision; Process Capability (Cp & Cpk); Calculating Current Sigma - Performance; Summary; Lesson Review.
	Analyse	Objectives; Histograms; Patterns in Histograms; Scatter Diagrams; Relationships in Scatter Diagrams; Stratification; Pareto Analysis; Mutli-vari Analysis; Design of Experiments; Summary; Lesson Review.
	Improve	Objectives; Generating Possible Solutions; Affinity Diagrams; Selecting Solutions; Proposed Solution Matrix; Cost Benefit Analysis; Failure Modes & Effect Analysis (FMEA); Summary; Lesson Review.
	Control	Objectives; Standardisation; Control Plan & Documentation; Monitoring; Summary; Lesson Review.

Future Learning Systems
Missenden Abbey, Great Missenden, Buckinghamshire, HP16 0BD
Tel: +44 (0)1494 355501 – Fax: +44 (0)1494 866737
E-mail: sixsigma@futurelearningsystems.co.uk