Six Sigma Green Belt Advanced – Level 1 & 2

A Self-Contained Course for Practicing as a Six Sigma Practitioner

…full course details

This course is suitable for anyone who wants to gain an in-depth understanding of Six Sigma, including those who are new to the concept of Six Sigma but are ambitious about learning and applying the Six Sigma principles within their organization.

The course includes Green Belt Foundation training, and goes on to include more advanced Six Sigma statistical tools including the application of Creative Thinking.

There are no pre-requisites for learners wishing to complete the Six Sigma Advanced course and successful students will be awarded a Six Sigma Certificate of completion.

Each of the syllabus areas will be covered in a module of the course; each module may contain a number of lessons, dependent on the areas covered.

The course includes three multiple-choice tests and on successful completion, students will be awarded a Six Sigma Green Belt Advanced Certificate.

The contents of this e-learning course comprises:

Module 1: Introduction to Six Sigma, Quality and Standards

This module introduces you to the meaning and use of the Six Sigma approach, the underlying concept of variation, the relationships to related Quality Management approaches, basic Six Sigma tools, international ISO standards for Six Sigma, and the nature of Six Sigma improvement projects.

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Module 2: Defining the Project Mission

This module will focus on creativity and creativity tools that can be used in coming up with creative formulations and solutions in (Lean) Six Sigma improvement projects.

In the various stages of DMAIC it is important to think `outside of the box`, rather than thinking in the same old way, with the same constraints. We need creative solutions.

Module 3: Project Reviews and Management

This module concentrates on the review and management of Six Sigma projects.

Project management is a very big subject. It provides concepts, tools and techniques to manage relatively small projects, such as Six Sigma projects, through to mega projects like sending men to Mars.

You should use these concepts and tools to a depth suited to your particular project. In this module we will explore the basic concepts and tools of project management, and recognize their application to Six Sigma projects.

Module 4: Introduction to Statistics and Excel

This module concentrates on Statistical techniques for summarizing data, and makes extensive use of Microsoft Excel. It assumes no previous knowledge of Excel.

If you are already familiar with Excel, you may find some of the explanations unnecessary and you will get through this module more quickly than others.

Module 5: Statistical Process Control (SPC)

This module concentrates on Statistical Process Control. This is one of the most powerful and frequently used tools in Six Sigma projects.

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Module 6: Root Cause Analysis

This module looks at identifying root causes in order to solve problems and make our processes, products and services more consistent.

Module 7: Benchmarking

This module creates an understanding of Bench-marking, and shows you how to identify and select appropriate sources of data. It also shows you how to avoid the common pitfalls of bench-marking.

Module 8: Introduction to Design of Experiments (DoE)

This module looks at choices in experimental design, and the Taguchi methodology.

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