

Introduction To Six Sigma

This 40-hour class is designed to help remove the shroud of myth and confusion surrounding Six Sigma. What is it? How is it implemented? Who needs to be involved? How does it transform an organization? Does it really work? This is a great class for anybody managing or working in an organization considering a role to lead or support a Six Sigma implementation project.

Six Sigma – Where it started, how it works, who's involved

- The origins for Six Sigma, SPC, and Dr. Deming
- The underlying principles of Six Sigma
- DMAIC – The five stages of Six Sigma
- The People and Roles in Six Sigma – Who Does What?
- Setting the wheels in motion in an organization
- Vital ingredients for Six Sigma implementation success
- Six Sigma and Lean – How they work together

Defining what the problems are – Six Sigma Stage 1

- Understanding systems – Getting the big picture
- Identifying and defining problems objectively
- Process mapping and analysis
- Identifying measurable Key Process Indicators – Critical To Quality characteristics
- Comparing your situation to industry - Benchmarking
- Developing a measurement plan

Taking measurements – Six Sigma Stage 2

- Understanding types of data and variation
- Theory and basic concepts of statistical measurement and tools (SPC)
- How to collect data that will provide for scientific and objective analysis
- Understanding measurement systems and assessing measurement reliability
- Creating the data collection plan

Evaluating your measurements – Six Sigma Stage 3

- Assessing the validity of your data
- Visualizing the natural variation of your processes
- Determining Sigma and process capability
- A look at applying some advanced statistical tools used by Black Belt practitioners
- Design of experiment – When and How it is used to solve difficult problems or test new methods

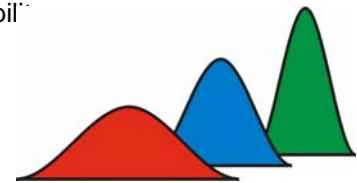
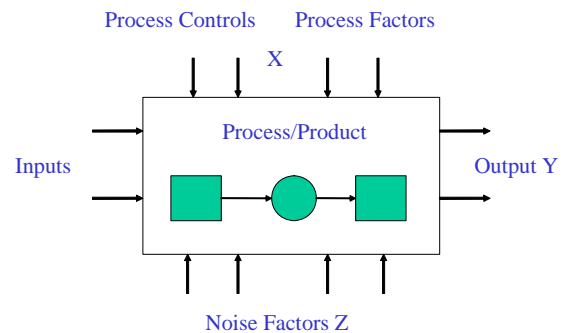
Responding to the data for process improvement – Six Sigma Stage 4

- Focusing on the specific factors or indicators showing the greatest influence in the process
- Using disciplined problem solving tools to pinpoint where changes need to be implemented
- Implementing changes and assessing their effectiveness

Process control and confirmation – Six Sigma Stage 5

- Understanding the difference between process monitoring and process control
- Establishing a process plan using SPC or other methods
- Identifying and assessing other input variables that may be affecting the processes under control

The Process Diagram



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