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ASQ Six Sigma Green Belt & Six Sigma Black Belt

Course No. 114A

This course is based on ASQ's Body of Knowledge. This course provides the tools, techniques and soft skills needed to effectively lead projects in manufacturing or service industries.

Course Benefits

Participants will obtain their Six Sigma Green Belt and Six Sigma Black Belt Certifications during this course. This course will also prepare them to take the ASQ exams for both SSGB and SSBB.

Prerequisites

Knowledge of basic quality concepts. A background in statistics is helpful. 3 years of work experience in methodologies and implementation.

Duration

Six Days (42 hours)

Learning Objectives

At the end of this course, participants will be able to:

1. Lead successful process improvement projects
2. Understand roles of leadership, champions, and project teams
3. Understand the Six Sigma Process and DMAIC methodologies
4. Understand how Six Sigma supports overall organization growth, mission, values, direction, and sustainability
5. Apply DFSS Methodologies to your organization
6. Determine Voice of the Customer (VoC)
7. Utilize a variety of statistical tools
8. Determine all possible outcomes using different types of probability
9. Utilize DOE applications
10. Determine the advantages and disadvantages of full factorial designs
11. Understand the difference between DFSS and DMAIC methodologies
12. Create various types of control charts using their applications

Topics Covered:

- Six Sigma and the Organization
- Define Phase
- Measure Phase
- Analyze Phase
- Improve Phase
- Control Phase
- Basic Statistics



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- Minitab
- Tools & Graphical Techniques
- Central Limit Theorem
- Process Capability Analysis
- Correlation Regression
- Probability & Distribution
- Non-Nominal Data
- Confidence Interval
- Hypothesis Testing
- ANOVA (Analysis of Variance)
- Introduction to Design of Experiments (DOE)
- DOE Roadmap
- DOE with Minitab
- Factorial Designs
- Center Points
- Fractional Factorial Designs
- Non-Parametric Statistics
- Response Surface Methods
- Statistical Process Control (SPC)
- Design for Six Sigma (DFSS)

Instructor:

The seminar leader is a Lean Six Sigma Master Black Belt with over 25 years' experience in implementing the methodologies.

Who Should Attend?

This course is designed for those who desire to support Six Sigma Black Belts to analyze and solve quality problems and be involved in quality improvement projects.

For More Information:

Contact Training administrator: training@qpsinc.com , Telephone: (508) 786-0777