

Six Sigma Green Belt

Lesson 1:

- A. Six Sigma Series goals and objectives
- B. The Six Sigma Business Proposal
- C. What is Six Sigma as a Metric
- D. What is the History of Six Sigma
- E. Quality Programs and Standards
- F. Six Sigma Training Systems

Lesson 2

- A. Six Sigma and Business Processes
- B. Business Process Management
- C. Business Process Diagrams
- D. Creating Business Process Maps
- E. Creating a SIPOC and other Diagrams

Lesson 3.

- A. Understanding the voice of the Customer
- B. Using Six Sigma for Service
- C. Six Sigma Tools for Process Improvement
- D. Lean Six Sigma Principles
- E. Understanding Process capability F. Understanding variation and SPC

Lesson 4

- A. Six Sigma Installation and Deployment
- B. Using the DMAIC Methodology
- C. Implementing the Design Stage
- D. Implementing the Measurement Stage

Lesson 5

- A. The DMAIC Methodology
- B. Implementing the Analysis stage
- C. Implementing the Improve Stage
- D. Implementing the Control Stage
- E. Review of Six Sigma Tools

Lesson 6

- A. Introduction to statistics and data
- B. Population and sample types
- C. Understanding the nature of data
- D. Basic statistical definitions

E. Statistical Inference

Lesson 7

- A. Introduction to Statistical Tools
- B. Understanding Hypothesis Tests
- C. Performing Analysis of Variance
- D. Using Excel and Minitab for Six Sigma
- E. Introduction to R for Six Sigma
- F. Using other statistical Tools

Lesson 8

- A. Summary of Six Sigma Quality Tools
- B. Using Quality Function Deployment
- C. Summary of Graphical Tools
- D. Run charts and Controls Charts
- E. Continuous Improvement with Six Sigma

Lesson 9

- A. Understanding Design for Six Sigma (DFSS)
- B. Advanced Voice of the Customer Concepts
- C. Using Design of Experiments (DOE)
- D. Failure Modes and Effects Analysis

Lesson 10

- A. Measurement System Analysis
- B. Gage R&R studies
- C. Six Sigma Project reviews
- D. Six Sigma Impact measurement