Six Sigma Green Belt - Advanced Topics

Mon, 03/22/2010 - 17:36 — Chris

Building on the Foundation. The Six Sigma Green Belt (SSGB) Advanced Topics course introduces additional concepts, tools and techniques used through the Define, Measure, Analyze, Improve, and Control (DMAIC) method beyond the SSGB - Foundations course [1]. It enhances the student's understanding of creating improvement strategies and executing and deploying six sigma DMAIC projects. Additional concepts related to quality systems, strategy creation, process management, lean principles & practices, and team management are presented.

This course completes the coverage for the American Society for Quality (ASQ) Body of Knowledge and can be used in preparing the student to participate in the ASQ Six Sigma Green Belt certification exam.

Course Content

- Overview: Six Sigma and the Organization
  - Organizational Drivers & Metrics
  - Improvement Goals & Six Sigma Projects
  - Theory of Constraints Introduction
  - Quality Function Deployment (QFD)
  - DFSS Roadmaps
- Six Sigma - Define
  - Project Management Basics
  - Process Management for Projects
  - Team Dynamics and Performance
- Six Sigma - Measure
  - Introduciton to Probability & Statistics
  - Collecting and Summarizing Data
  - Probability Distributions
  - Process Capability and Performance
- Six Sigma - Analyze
  - The Basics of Hypothesis Testing
  - Tests for Means, Variances, and Proportions
  - Paired-Comparison Tests
  - Single Factor Analysis of Variance (ANOVA)
  - Chi Square
- Six Sigma - Improve & Control
  - Design of Experiments Introduction
  - Statistical Process Control - Rational Sub-Grouping
  - Solution Implementation & Validation
  - Designing & Implementing a Control Plan
- Review & Next Steps

Pillar: Team Excellence
Price: $750.00 per student*
Duration: 18.00 hrs
*Pricing varies according to student number, venue & sponsoring organization expense sharing - Call for an exact quote.

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- Quality Excellence [2]

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