

Design For Six Sigma - Process: Course Content and Outline

Introduction:

- Introduction To DFSS Concepts
- Beyond DMAIC - Closing The Gap With DFSS
- DFSS And Lifecycle Cost
- Alternate DFSS Roadmaps
- Phase-gate Project Management
- Design Leverage Through DFSS
- DFSS Success Stories
- Introduction To Roller Coaster Tycoon Simulated Project Practice

Define:

- Balanced Scorecard
- Project Selection
- Project Charter
- Project Tracking
- Customer Requirements (Voice of the Customer - VOC)
- Obtaining VOC Information
- Affinity Diagram
- CTQC Tree Diagrams, Critical to Quality Characteristics (CTQC's)
- Setting Specifications
- Roller Coaster Tycoon Simulation Exercise and Quiz

Concept:

- Quality Function Deployment
- Metrics
- Process Capability Review
- Benchmarking
- Beyond Customer Requirements - Kano Model
- Brainstorming
- Encouraging The Creative Process
- Pugh Concept Selection
- Roller Coaster Tycoon Simulation Exercise and Quiz

Design:

- Design Development
- Design Scorecard
- Building Process Models
- Predicting Performance With Simulation
- Multiple Regression Analysis
- Failure Mode And Effects Analysis
- Product and Process Reliability
- The Transfer Function
- Roller Coaster Tycoon Simulation Exercise and Quiz

Optimize:

- Product and Process Optimization
- Simulation Using Monte Carlo Analysis
- Continuous Flow And Complexity Reduction
- Optimization Using Simulation
- Developing Process Specifications Using QFD
- Roller Coaster Tycoon Simulation Exercise and Quiz

Verify:

- Aspects Of Verification
- Process Control Plan
- Testing For Reliability
- Piloting and Launching New Designs
- Evolutionary Operations (EVOP)
- The Project Hand-off
- Roller Coaster Tycoon Simulation Exercise and Quiz

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