

# Six Sigma Black Belt Certification (SSBB)



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Six Sigma and the Corporate Enterprise  
Leadership in Six Sigma  
Organizational Goals and Objectives  
History of Organizational Improvement and the Foundations of Six Sigma  
Overview of Business Process Management  
The Importance of Metrics to Six Sigma  
Define the Six Sigma Opportunity  
The Six Sigma Project Charter and Plan  
Six Sigma Team Leadership  
Six Sigma Team Dynamics and Performance  
The Six Sigma Change Agent  
Six Sigma Management and Planning Tools  
Six Sigma and the Voice of the Customer  
Six Sigma and Critical Customer Requirements  
Defining and Mapping the Six Sigma Process  
Scoping the Six Sigma Project  
Process Analysis and Documentation  
Probability and Statistics  
Collecting and Summarizing Data  
Properties and Applications of Probability Distributions  
Measurement Systems  
Analyzing Process Capability  
Calculating Process Capability  
Exploratory Data Analysis  
Hypothesis Testing  
Common Tests  
Variance, Contingency Tables, and Nonparametric Tests  
Design of Experiments (DOE)  
Design and Analysis  
Taguchi and Quality Improvement  
Experimenting for Process Improvement  
Six Sigma--Statistical Process Control  
Control Charts and the Pre-control Process  
Six Sigma--Lean Tools for Control  
Six Sigma--Measurement System Re-analysis  
Lean Concepts  
Non-value added Steps and Tasks  
Lean Tools  
Total Productive Maintenance (TPM)  
Quality Function Deployment (QFD)  
Robust Design and Process  
Failure Mode and Effect Analysis  
Design for X (DFX)  
Special Design Tools