



Six Sigma Green Belt Volume 2: Manufacturing (Juran Manufacturing)

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To reach a Six Sigma level of performance means that an organization has a goal to reduce defects to 3.4 parts per million or fewer. Achieving this goal can only be accomplished through the breakthrough reduction of process variation, and maintaining strict control standards. Combining Six Sigma levels of improvement with effective team skills has provided vast advances in many organizations. The fundamental objective of Juran's Six Sigma Manufacturing curriculum is to develop a methodology and strategy that enables individuals and organizations to successfully improve processes and reduce variation. At a project level the Six Sigma DMAIC process (Define, Measure, Analyze, Improve, and Control) is an improvement system for existing processes falling below specification and provides methods for obtaining breakthrough improvement. The objectives for this workshop include gaining an understanding of the tools and techniques within Lean and Six Sigma necessary to carry out your role as a Green Belt, applying Lean and Six Sigma tools in a project, practicing the application of Lean and Six Sigma methods through real life exercises, developing the skills to manage team dynamics, and becoming prepared to complete your belt certification requirements. Exercises and examples used throughout this book are specific to the manufacturing industry. Continuing on topics covered in volume one, volume two delves into stratification of data and hypothesis testing, the Improve and Control portions of DMAIC, and statistical process control methods, among many other tools and methods. Green Belts identify and resolve chronic problems using the Six Sigma toolkit including graphical analysis tools. They are active participants and team members working in the process being improved. Green Belts can also be autonomous team leaders, and work as subject matter experts who help project teams from time to time, sharing their specialized knowledge. Topics covered in Six Sigma Green Belt Volume 2: Manufacturing are: 1. Analyze 2. Stratification of Data 3. An Introduction to Hypothesis Testing 4. Confidence Intervals 5. Testing Hypotheses When Y is Categorical and X is Categorical 6. Normality Testing 7. Testing for Equal Variances 8. Testing Hypotheses When Y is Continuous and X is Categorical 9. Analysis of Variance 10. Nonparametric Tests 11. Testing Hypotheses When Y is Continuous and X is Continuous 12. Improve 13. Introduction to Design of Experiments 14. Prove Effectiveness 15. Control 16. Mistake Proofing 17. Statistical Process Control Methods 18. Documentation and Replication Six Sigma Green Belt Volume 1: Manufacturing is a prerequisite. This book is volume two of two.

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