



# Six Sigma for Powerful Improvement: A Green Belt DMAIC Training System with Software Tools and a 25-Lesson Course

By Charles T. Carroll

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## Six Sigma for Powerful Improvement: A Green Belt DMAIC Training System with Software Tools and a 25-Lesson Course By Charles T. Carroll

Although the Six Sigma Define-Measure-Analyze-Improve-Control (DMAIC) methodology is a widely accepted tool for achieving efficient management of all aspects of operations, there are still many unwarranted concerns about its perceived complexity and implementation costs. Dispelling these myths, **Six Sigma for Powerful Improvement: A Green Belt DMAIC Training System with Software Tools and a 25-Lesson Course** clarifies the long-accepted statistical and logical processes of Six Sigma and provides you with tools you can use again and again in your own "real world" projects?removing any doubts regarding their simplicity and "doability".

Not only does the book provide you with reasons for using the tools, it reveals the underlying doctrines, formulas, and steps required. Although the tools and techniques presented are specifically associated with the DMAIC philosophy, they are applicable across a wide range of management and improvement scenarios. Explaining Six Sigma processes in language that's easy to understand, the book starts with an overview, followed by specific techniques and procedures. It presents detailed, illustrated lesson segments that include an agenda, roadmap, objectives, and a list of takeaway concepts. It also:

- Provides seven separate Excel tool templates?each with its own user guide and additional smaller tools
- Presents completed Excel sample workbooks for each tool to facilitate your comprehension and utilization confidence
- Includes a CD with a PowerPoint-based DMAIC training course, the aforementioned Excel-based Six Sigma tools and workbooks, and extensive instructor's notes embedded in each lesson

Trained as and employed as a Black Belt and later as a Master Black Belt, the author presents doctrines and procedures with a strong pedigree and history of success. The book uses hundreds of figures and tables to illustrate key concepts and also makes them available in full-color on the accompanying CD. This is also true of the figures in the user guides that document the accompanying tools. For each of the tools, the book includes a completed sample workbook. The

PowerPoint and Excel lessons and tools are provided in both 2007 and 97-2003 versions.

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### **Editorial Review**

#### About the Author

**Charles Carroll** is an independent consultant. Initially educated at the U.S. Naval Academy, he later earned an MS in Systems Management at the University of Southern California and served as a Supply, Logistics and Systems Officer in the Marine Corps. He then worked at Sprint Corporation and General Electric's Employers Reinsurance Corporation (ERC), where he was trained and certified as an internal consultant in GE's Six Sigma Quality processes, served as a Master Black Belt for the IT Department, administered the local and offshore outsourcing programs, automated project management, and established a global Project Management Office within ERC's IT department.

Charlie serves as an independent consultant in project/program/PMO management, process improvement, and application development. He has written articles for a number of professional publications, spoken at domestic and international conferences, and developed a number of project management and Six Sigma tools and training for clients. He can be reached at [ctcarroll14@sbcglobal.net](mailto:ctcarroll14@sbcglobal.net).

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