



## The Six Sigma Handbook, Fourth Edition (Mechanical Engineering)

By Thomas Pyzdek, Paul A. Keller



**The Six Sigma Handbook, Fourth Edition (Mechanical Engineering)** By Thomas Pyzdek, Paul A. Keller

### The most complete, current guide to Six Sigma

“Best practices in Six Sigma are continuously evolving, just as Six Sigma itself evolved from earlier best practices in quality improvement. ... This fourth edition... (features) expanded materials on innovation, strategic development, Lean, and constraint management. ... You’ll notice many references to free online materials within the text, such as Excel file templates that can be used for analyzing projects, or videos that provide an in-depth narrative on specific topics. Additional links will be added over time to further extend the learning potential offered by the text, so be sure to regularly check back into the online site at <https://www.mhprofessionalresources.com/sites/ssh4/>.” —From the Preface by Paul Keller

The Six Sigma approach is being used to vastly improve processes, profitability, sustainability, and long-term growth at global organizations of all sizes. Fully revised for the latest developments in the field, *The Six Sigma Handbook*, Fourth Edition, reveals how to successfully implement this improvement strategy in your company.

The book explains how to define and deploy Six Sigma projects focused on key stakeholder requirements and carry out data-driven management. This comprehensive resource walks you through the phases of DMAIC and DMADV and demonstrates how to use the statistical tools and problem-solving techniques of Six Sigma with screenshots of Minitab and Excel applications.

The new edition has been updated to include:

- Two online quizzes for Six Sigma certification, one for Green Belt candidates and one for Black Belt candidates
- Links to five videos that walk you through specific processes, such as Minitab functions, statistical process control, and how to read a Pareto chart
- Fully incorporated coverage of Lean methodologies

Find out how to select the right personnel to train, achieve technical proficiency, build the best teams, and foster effective leadership. Improve the quality of

processes and products in your organization, increase customer satisfaction, and boost profits with help from this definitive guide to Six Sigma.

Written by two of the foremost authorities on the subject, this authoritative resource delivers all of the guidance you need to successfully implement Six Sigma. Comprehensive coverage includes:

- Building the responsive Six Sigma organization
- Recognizing and capitalizing on opportunity
- Data-driven management
- Maximizing resources
- Project management using DMAIC and DMADV
- The define phase
- The measure phase
- Process behavior charts
- Measurement systems evaluation
- The analyze phase
- The improve/design phase
- The control/verify phase

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### Editorial Review

#### About the Author

**Thomas Pyzdek** holds more than 50 copyrights including *The Six Sigma Handbook*, *The Quality Engineering Handbook* and *The Handbook of Quality Management*. His works are used by thousands of universities and organizations around the world to teach process excellence. He offers online training and certification in Six Sigma, Lean and Lean Six Sigma. Pyzdek has provided training and consulting to employers and clients in all industries since 1967. He provides consulting guidance from the executive suite to “Belts” working in the trenches. Pyzdek is a Fellow of ASQ and recipient of the ASQ Edward’s Medal and the Simon Collier Quality Award, both for outstanding contributions to the field of quality management, and the ASQ E.L. Grant Medal for outstanding contributions to Quality Education. Pyzdek serves on numerous editorial boards, including *The Quality Management Journal*, *Quality Engineering*, and *International Journal of Six Sigma and Competitive Advantage*.

**Paul Keller** is President of Quality America, Inc., where he works with clients to successfully implement quality improvement concepts and techniques across a full spectrum of manufacturing and service sectors. His online courses and training materials are available through select colleges and universities worldwide, as well as through Quality America’s website. In addition to a number of published articles in quality improvement, Keller has authored *Six Sigma Demystified* (McGraw-Hill, 2005) and *Statistical Process Control Demystified* (McGraw-Hill, 2011), and co-authored (with Pyzdek) *The Handbook for Quality Management*, Second Edition (McGraw-Hill, 2011) and the third and fourth editions of *The Six Sigma Handbook*.

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