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Reiner Hutwelker

Six Sigma Green Belt Certification Project

Identification, Implementation
and Evaluation

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And this is for you, Nora: *I know you are there, somewhere – because your absence fills my life . . . as a star in the night and the light for my day. And one day you will understand, what was done to you.*

Preface

You want to realize your own Six Sigma project? Here is a sample project about the low quality, the lack of availability, and the consumption-intensive production of cookies in a bakery. From the identification of a suitable project topic in the DEFINE to the sustainable management of its success in the CONTROL phase, all necessary steps are demonstrated and supported by a DMAIC software guideline. The application of the sequentially linked DMAIC tools is easy to understand and directly transferable to typical individual Six Sigma Business Projects for professionals. As a student, still in education, you can implement our predefined Standard Project on environmental littering, based on concrete tasks. Both the Business and the Standard Project can lead to your Green Belt certification. Test questions and answers can stabilize your knowledge. Tips for your project Sponsor clarify this management role and provide basic knowledge of Six Sigma, checklists, and information on success factors and threats for Six Sigma projects and enterprise programs. Notes for Six Sigma experts explain the concept and the selection, sequencing, and modification of the tools.

Learning is supported by:

- Videos: Animated content of this book (43 lessons, 5:15 hours)
- sigmaGuide: Software for the implementation of Six Sigma projects (32 tools and charts)
- Methods and tools for process improvement (86 slides with the figures of this book)
- Statistics with Minitab (136 slides)
- Project-Story-Book: PowerPoint template for project documentation (60 slides)
- Project Guideline: Overview poster of all DMAIC phases and tools

The course takes place in partnership with the TU Munich, as part of the edX Professional Series:

- *Six Sigma and Lean: Quantitative Tools for Quality and Productivity (QPLSx)*: www.edx.org.
- The certification is awarded by the TU München School of Management: www.eec.wi.tum.de.

The handouts and the software are additionally available on my homepage: www.sigmalogic.de and the videos on my YouTube channel: https://www.youtube.com/channel/UCShsy5015dFsoS XU__hBKSA.

All illustrations are by the author, except Figs. 2.3 and 13.1 and Table 6.1.

Aich, Austria
August 2019

Reiner Hutwelker

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