



Quality Tools for Managing Construction Projects (Industrial Innovation Series)

By Abdul Razzak Rumane

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Quality Tools for Managing Construction Projects (Industrial Innovation Series) By Abdul Razzak Rumane

Dealing with such a multi-layered and fungible intangible as quality during the design and construction process is difficult for all parties involved. To the architect, quality means an appealing and enduring design, but to the builder, it means understandable documents that, when acted upon, lead to an enduring, well-made structure. To the owner, it is the end result: a building that is not only fit for the purpose, but a positive addition to its surroundings. Reconciling these seemingly contrasting priorities requires processes that are embedded not just at the project level, but within the entire enterprise with designer, builder, and owner committed to integrating quality into all their business processes.

Quality Tools for Managing Construction Projects not only details the importance of developing a comprehensive management system, but provides the tools and techniques required to do so. The book examines the usage and applications of tools and techniques in different phases of a construction project, focusing on plan quality, quality assurance, and quality control. Following the construction cycle, Dr. Rumane delineates the quality tools and their application, ending with the implementation of quality systems throughout the entire design and construction cycle.

The book demonstrates how these tools can help in planning, executing, monitoring, and controlling a project?evolving project management into a system that ensures project deliverables consistently meet the defined scope on schedule and within budget. The author's systems perspective recognizes and supports the ideal collaborative approach that modern design and construction projects need. Dr. Rumane then demonstrates that successful quality management is more than a series of handoffs between teams who've completed tasks.

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Editorial Review

Review

From the Foreword:

"Dr. Rumane understands the tools and systems not just for managing quality, but for creating quality-focused project and enterprise processes that will ensure the quality of the deliverables and services during and after design and construction. ... he has identified the quality tools and systems that have been successfully integrated into manufacturing and services and then presents them in clear and easily adoptable methods for use in design and construction projects, as well as describing how to incorporate them into all of the organizations that make up the design and construction industry, including designers, builders, and owner services."

?Cliff Moser, AIA, MSQA, LEED AP, *Past Chair, Design and Construction Division, ASQ*

"Dr. Rumane has compiled one of the most comprehensive books on quality for the construction industry. His knowledge of current techniques and how quality tools can be applied to improve the understanding of the business is well documented and understandable to all practitioners. His understanding of the client, engineer, and contractor relationship in the traditional construction for buildings is well documented with examples that can be immediately applied for better quality in the construction of buildings."

—Raymond R. Crawford, Parsons Brinckerhoff, Herndon, Virginia, USA

"Dr. Rumane's book is a good source for Quality Tools in Construction. The tables and figures provide an easy review of the quality tools so you can review them quickly. I'm looking forward to reading the rest of the book and being able to put some of the quality tools that I'm not familiar with into practice."

?Celia Gray, ASQ Design and Construction Division Chair 2013 and Quality Manager Charlotte Area Transit System, Charlotte, North Carolina, USA

"I really enjoy reading the book and found it very useful for those who are interested in promoting quality and performance in construction projects. ... the material presented here in is quite detailed and hence improves the creative thinking for engineers in solving problems at sites. ... the book illustrates almost all tools and techniques one needs to embolden and strengthen decision making and leave a tiny slot for errors . From my experience , as an academic , trainers , facilitator , civil engineer, certified value specialist (CVS) which extends more than 35 years (in Consultation and Contracting) I strongly recommend this book to be read and used in daily life practice for engineers and constructors alike."

?Prof. Emad W. Shublaq, CVS-L, F.ASCE, F.IEAust., F.SAVE, CPEng., Olayah District , Saudi Arabia

"I especially appreciate the historical perspective and overview, and would recommend Dr. Rumane's work as a reference for students and practitioners alike. ... I trust Dr. Rumane to bring forth the best thinking and most forward practices within his field."

?Ted Coleman, PhD, CHES, California State University, San Bernardino, USA

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