Record Nr. UNINA9910143584403321 Six sigma [[electronic resource]]: advanced tools for black belts and **Titolo** master black belts / / Loon Ching Tang ... [et al.] Pubbl/distr/stampa Chichester, England;; Hoboken, NJ,: Wiley, c2006 **ISBN** 1-282-11204-X 9786612112041 0-470-06200-2 0-470-06199-5 Descrizione fisica 1 online resource (427 p.) Altri autori (Persone) TangLoon Ching Disciplina 658.4013 658.562 Six sigma (Quality control standard) Soggetti Total quality management Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Six Sigma; Contents; Preface; PART A: SIX SIGMA: PAST, PRESENT AND Nota di contenuto FUTURE; 1 Six Sigma: A Preamble; 1.1 Introduction; 1.2 Six Sigma Roadmap: DMAIC; 1.3 Six Sigma Organization; 1.4 Six Sigma Training; 1.5 Six Sigma Projects: 1.6 Conclusion: References: 2 A Strategic Assessment of Six Sigma; 2.1 Introduction; 2.2 Six Sigma Framework; 2.3 Six Sigma Features; 2.4 Six Sigma: Contrasts and Potential; 2.5 Six Sigma: Inherent Limitations; 2.6 Six Sigma in the Knowledge Economy; 2.7 Six Sigma: Improving the Paradigm; References; 3 Six Sigma SWOT; 3.1 Introduction; 3.2 Outline of Six Sigma 3.3 SWOT Analysis of Six Sigma3.4 Further Thoughts; References; 4 The Essence of Design for Six Sigma; 4.1 Introduction; 4.2 The IDOV Roadmap; 4.3 The Future; References; 5 Fortifying Six Sigma with OR/MS Tools; 5.1 Introduction; 5.2 Integration of OR/MS into Six Sigma Deployment; 5.3 A New Roadmap for Six Sigma Black Belt Training; 5.4 Case Study: Manpower Resource Planning; 5.5 Conclusions; References; PART B: MEASURE PHASE; 6 Process Variations and Their Estimates; 6.1 Introduction: 6.2 Process Variability: 6.3 Nested Design: References: 7

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Sommario/riassunto

The 2007 winner of the Masing Book Prize sets out important Six Sigma concepts and a selection of up-to-date tools for quality improvement in industry. Six Sigma is a widely used methodology for measuring and improving an organization's operational performance through a rigorous analysis of its practices and systems. This book presents a series of papers providing a systematic 'roadmap' for implementing Six Sigma, following the DMAIC (Define, Measure, Analyse, Improve and Control) phased approach. Motivated by actual problems, the authors offer insightful solutions to some of the mo