1. Record Nr. UNINA9910830789603321 Autore El-Haik Basem Titolo Simulation-based lean six-sigma and design for six-sigma [[electronic resource] /] / Basem El-Haik, Raid Al-Aomar Hoboken, N.J., : Wiley-Interscience, c2006 Pubbl/distr/stampa **ISBN** 1-280-72132-4 9786610721320 0-470-04772-0 0-470-04771-2 Descrizione fisica 1 online resource (426 p.) Altri autori (Persone) Al-AomarRaid 658.562 Disciplina Soggetti Six sigma (Quality control standard) Total quality management Production engineering 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 (p. 395-399) and index. SIMULATION-BASED LEAN SIX-SIGMA AND DESIGN FOR SIX-SIGMA: Nota di contenuto CONTENTS; PREFACE; ACKNOWLEDGMENTS; PART I SIX-SIGMA FUNDAMENTALS; 1 Six-Sigma Fundamentals; 1.1 Introduction; 1.2 Quality and Six-Sigma Defined: 1.3 Introduction to Process Modeling: 1.4 Introduction to Business Process Management; 1.5 Measurement Systems Analysis; 1.6 Process Capability and Six-Sigma Process Performance; 1.7 Overview of Six-Sigma Improvement: DMAIC; 1.8 Six-Sigma Goes Upstream: Design for Six-Sigma; 1.9 Summary; 2 Lean Six-Sigma Fundamentals; 2.1 Introduction; 2.2 Lean Six-Sigma Approach; 2.3 LSS-Enhanced DMAIC 2.4 Lean Manufacturing2.5 Value Stream Mapping; 2.6 Lean Techniques; 2.7 Summary; 3 Design for Six-Sigma Fundamentals; 3.1 Introduction; 3.2 Transaction-Based Design for Six-Sigma; 3.3 Service Design for Six-Sigma: 3.4 Service DFSS: The ICOV Process: 3.5 Service DFSS: The ICOV Process in Service Development; 3.6 Summary; PART II SIMULATION FUNDAMENTALS; 4 Basic Simulation Concepts; 4.1

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Sommario/riassunto

This is the first book to completely cover the whole body of knowledge of Six Sigma and Design for Six Sigma with Simulation Methods as outlined by the American Society for Quality. Both simulation and contemporary Six Sigma methods are explained in detail with practical examples that help understanding of the key features of the design methods. The systems approach to designing products and services as well as problem solving is integrated into the methods discussed.