Record Nr. UNINA9910830940603321 Autore Kang Chang W (Chang Wok), <1957-> Titolo Basic statistical tools for improving quality [[electronic resource] /] / Chang W. Kang, Paul H. Kvam Hoboken, N.J., : Wiley, 2011 Pubbl/distr/stampa **ISBN** 1-283-59282-7 9786613905277 1-118-49175-0 1-118-49149-1 1-118-49151-3 Descrizione fisica 1 online resource (264 p.) Classificazione TEC032000 KvamPaul H. <1962-> Altri autori (Persone) Disciplina 658.562 658.562015195 Soggetti Process control - Statistical methods Quality control - Statistical methods Acceptance sampling Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references (p. 212-213) and index. Nota di bibliografia Basic Statistical Tools for Improving Quality; CONTENTS; Preface; 1 The Nota di contenuto Importance of Quality Improvement; 1.1 Introduction; 1.2 What Is Statistical Process Control?; 1.3 The Birth of Quality Control; 1.4 What Is a Process?: 1.5 Examples of Processes from Daily Life: 1.6 Implementing the Tools and Techniques; 1.7 Continuous Process Improvement; 1.8 The Goal of Statistical Process Control; 1.9 The Eight Dimensions of Quality for Manufacturing & Service; 1.10 The Cost of (Poor) Quality; 1.11 What Did We Learn?; 1.12 Test Your Knowledge; 2 Graphical Display of Data; 2.1 Introduction to eZ SPC 2.2 Qualitative and Quantitative Data2.3 Bar Chart: 2.4 Pie Chart: 2.5 Pareto Chart; 2.6 Radar Chart; 2.7 Histogram; 2.8 Box Plot; 2.9 Scatter Plot; 2.10 Cause and Effect Diagram; 2.11 What Did We Learn?; 2.12 Test Your Knowledge; Exercises; 3 Summarizing Data; 3.1 Central Tendency; 3.2 Variability; 3.3 Statistical Distributions; 3.4 Distributions in eZ SPC; 3.5 What Did We Learn?; 3.6 Test Your Knowledge; Exercises;

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## Sommario/riassunto

"This book is an introductory book on improving the quality of a process or a system, primarily through the technique of statistical process control (SPC). There are numerous technical manuals available for SPC, but this book differs in two ways: (1) the basic tools of SPC are introduced in a no-nonsense, simple, non-math manner, and (2) the methods can be learned and practiced in an uncomplicated fashion using free software (eZ SPC 2.0), which is available to all readers online as a downloadable product. The book explains QC7 Tools, control charts, and statistical analysis including basic design of experiments. Theoretical explanations of the analytical methods are avoided; instead, results are interpreted through the use of the software"--