

1. Record Nr.	UNINA9910483120403321
Titolo	Techniques, tools and methodologies applied to quality assurance in manufacturing // Jorge Luis Garcia Alcaraz, Cuauhtemoc Sanchez-Ramirez, Alfonso Jesus Gil Lopez, editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-69314-7
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XXXVIII, 466 p. 301 illus., 245 illus. in color.)
Disciplina	670
Soggetti	Manufacturing processes - Quality control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Concepts and quality philosophies -- Data analysis -- Statistical techniques in quality -- Six sigma and technologies -- Quality certification -- Human resource in quality assurance.
Sommario/riassunto	This book presents a collection of real cases from industrial practices that production system and quality managers implement to ensure a high quality as well as a low cost in products. This book is divided in sections that are focused on: · The quality and philosophies implemented to production systems; starting from the product design as well as from the supply system. · The principal statistical techniques applied to the quality assurance (statistical quality control, analysis of tests and failure, quality function deployment, accelerated life tests, among others), the process of gathering information, its validation, its reliability process, and techniques for data analysis. · The techniques applied to the integration of human resources in the process of quality assurance, such as managers and operators' participation, training, and training processes. · Use of information and communications technologies, software, and programs implemented to guarantee the quality of the products in the production systems. ISO standards and policies that are used for quality management and monitoring.