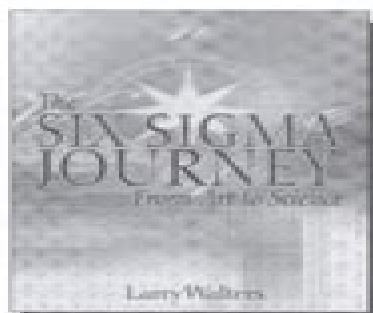


The Six Sigma Journey: From Art to Science

THIS BOOK EXCERPT
EXPLAINS HOW A
FICTIONAL COMPANY
SUCCESSFULLY
USED DOE TESTING.

By Larry
Walters, R2
Solutions Inc.



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Often the most difficult part of the Six Sigma process is getting everyone to understand and completely support the initiative. This is the focus of *The Six Sigma Journey: From Art to Science*, a novel by Larry Walters. The book describes the journey of the main character, Barry, as he implements Six Sigma at HPZ Chemicals, a fictional company that manufactures catalysts, dyes and pigments. It chronicles the deployment of Six Sigma along with the real events that happen at companies trying to implement Six Sigma in a difficult environment. The story touches upon the people who oppose it, what is needed to make Six Sigma work and the many successes and failures along the way.

As this excerpt begins, HPZ Chemicals has started on Black Belt (BB) training and is in the "improve" phase (from the normal Six Sigma DMAIC model) of its first projects.

Black Belt Training: Improve

I wasn't able to spend a lot of time in the training classes during this module, which really upset me. Dave and Roman had whet my appetite for design of experiments (DOE) during the executive training.

Paula was a little upset her project did not lend itself to DOE, so she helped Tim with his. This way she was able to fulfill her qualifications for certification and get some practical experience.

Dave was also teaching this module, and he explained the real goal of a BB project was to solve the problem, not try and use all the tools. If the project could be solved in the define and measurement stages, great. Solve it, and start working on something else. The only demand was for all the tools to be used during training so the BBs had some practical experience.

There were quite a few experiments that had to be run in the next three weeks. Dave said it was acceptable to put some off until the fourth module if necessary. He understood we still had a plant to run.

The problem was the plant had a way of doing things and did not want to take a chance on doing something that would slow it down. But if the production managers had their way, we would never run the tests. I was late for a meeting in production to discuss running Tim's DOE on the number one rotary kiln.

Convincing Lou

"Come on in, Barry. Everyone is here now," said Tim.

"Tim, why don't you explain what you want to do for all of us," said Mark, who was starting to act like a Six Sigma convert.

"Everyone knows my project is to better control surface area. This affects all

Six Sigma Journey From Art To Science

Albert A Gayle



Six Sigma Journey From Art To Science:

The Six Sigma Journey from Art to Science Larry Walters, 2002 Often the most difficult part of the Six Sigma process is getting everyone to understand and completely support the initiative This is the focus of *The Six Sigma Journey from Art to Science* which explains the Six Sigma process in a very understandable and easy to read manner the book is a fictional novel which follows the main character as he implements Six Sigma in his company it chronicles the deployment of Six Sigma along with the real events that happen as companies implement Six Sigma including the people who oppose it what is needed to make Six Sigma work and the many successes and the failures along the way Through the use of examples and the lives of the characters the reader gains an understanding of not only the technical aspect of Six Sigma but also the human side Because the book is more motivational than technical the reader gets a much better understanding of why Six Sigma is successful an ideal book for any company looking to get started in Six Sigma or those experienced in Six Sigma hoping to better educate employees on the process I know all the people in the book the true believers the cynics the supporters who give lip service only those truly committed and involved and those looking for ways to make the initiative fail I know them because I have worked with them trained them counseled and suffered with them as they worked so hard to do the right things for their companies a very worthwhile non technical book for executives managers and people just wanting to get an understanding of what Six Sigma is all about and some of the hazards and complexities of implementation Michael D Jones PE Senior Master Black Belt Past President of ASQ *Enhancing Healthcare Excellence: A Six Sigma Journey* Pasquale De Marco, Welcome to a groundbreaking exploration of healthcare quality in *Enhancing Healthcare Excellence A Six Sigma Journey* This exceptional guide is your passport to a healthcare world where quality reigns supreme and excellence becomes the norm Delving deep into the core principles of Six Sigma this book demystifies the enigma of quality improvement within the healthcare sector While inspired by the foundations of the original Six Sigma Book for Healthcare this journey is uniquely its own With a commitment to originality and creativity this book offers a fresh perspective that avoids any hint of imitation Discover the heart of this journey in an introduction that sets the stage for a transformative experience We invite you to join us as we navigate the complexities of healthcare uncovering the potential of Six Sigma in this high stakes arena Our mission is clear to reduce errors improve outcomes and elevate healthcare excellence Our voyage takes us through ten meticulously crafted chapters each offering a profound understanding of Six Sigma s role in healthcare quality We begin by introducing the origins and significance of Six Sigma emphasizing its direct relevance to the healthcare industry With the benefit of real world case studies we illustrate the practical application of this methodology in diverse healthcare settings You ll embark on a journey into the fundamentals of quality improvement exploring the meaning of quality in healthcare the role of continuous improvement and the establishment of a quality driven culture Regulatory requirements and quality standards are demystified ensuring you re well versed in the necessary guidelines The heart of our journey lies in the process of defining

healthcare processes where we meticulously map and analyze every aspect. We delve into data collection and root cause analysis giving you the tools to identify bottlenecks and areas for improvement. As you journey through these pages you'll become adept at process optimization. In the Measure phase we hone our data collection techniques and delve into statistical tools to monitor healthcare processes effectively. We guide you through the maze of quality metrics and key performance indicators ensuring you have the insight you need to make impactful decisions. The Analyze phase empowers you with the skills to identify problem areas, interpret data and uncover patterns through advanced statistical analysis. The journey takes an artistic turn as we employ fishbone diagrams for cause and effect analysis leading you to the root causes of issues. Through this you'll develop the capacity to implement data driven solutions. In the Improve phase we craft a transformative environment for healthcare excellence. You'll learn to prioritize improvement ideas, implement change and monitor its progress. Lean principles are applied to ensure that every change aligns with the goals of high quality patient care. The Control phase guarantees the sustainability of your improvements maintaining the highest standards in healthcare delivery. Staff training and change management are central to this phase creating an environment of continuous improvement that permeates every corner of healthcare. Real world case studies illustrate the tangible impact of our journey showcasing successful applications of Six Sigma across a spectrum of healthcare domains. You'll witness how Six Sigma principles have revolutionized patient care, improved efficiency and saved lives. But this journey doesn't conclude with these pages. The final chapters explore future trends in healthcare quality unveiling the transformative potential of artificial intelligence, patient centered care and digital healthcare solutions. These emerging trends offer not just challenges but exciting opportunities for those who are well prepared. Join us on this voyage and become a pioneer of healthcare quality and excellence. This book is your guide to a future where healthcare errors are minimized, patient outcomes are optimized and quality reigns supreme. Welcome to the world of Enhancing Healthcare Excellence: A Six Sigma Journey. [The Six Sigma Path to Leadership](#) David H. Treichler, 2003-06-30. Many organizations have seen dramatic improvements by implementing a Six Sigma system including better efficiency, reduced errors and increased profits. But for the individuals charged with implementing this system it can be a long and arduous journey. The Six Sigma Path to Leadership: Observations from the Trenches was written to serve as a support guide for these individuals who may get lost or frustrated on their journey toward Six Sigma improvement. Author David Treichler has assembled a collection of stories showing how others handled these same situations including the good and the bad with many how to and how not to examples. The book is written for anyone from senior management to the curious novice with the intent to encourage and assist everyone wherever they may be in their own Six Sigma journey. The Six Sigma Path to Leadership is not intended to teach the specific tools or techniques of Six Sigma but rather to inspire and motivate Six Sigma professionals to lead and teach others in the organization. The stories shared within will spark the readers' imaginations and help them get the most out of their efforts.

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Six Sigma for the Office Roderick A. Munro,2002-06-13 The principles of Six Sigma are being used in nearly every industry to reduce waste and improve performance However most books on the subject are written only for those in manufacturing and specifically for engineers or those with a high level of technical expertise Meanwhile those working in offices receive little or no information on how to use Six Sigma in their environments Now best selling author Rod Munro has written a convenient book explaining the tools of Six Sigma specifically tailored to those in the office Six Sigma for the Office A Pocket Guide is a convenient guide for anyone working on Six Sigma projects in non manufacturing environments Specifically written for those at the green belt level this book will help explain the Six Sigma tools and show how they apply to those working in an office All of the examples in the book are taken from the office environment so office workers will easily identify and be able to apply these tools in their own jobs **Business Performance through Lean Six Sigma**

James T. Schutta,2005-03-15 Lean Six Sigma is helping to vitalize many small and large organizations by paying attention to the customer s needs and providing processes with smaller amounts of variation to consistently meet and even exceed those needs This task is completed when the organization understands its processes better and controls those inputs and the process variations that will affect the customer s needs the most The intent of this book is to develop the concepts of the Twelve Pillars which support the Six Sigma improvement process tie this to both the Malcolm Baldrige National Quality Award and lean and then to cover the areas that should be considered during the implementation of the Six Sigma process The executive management of every organization must read this book to establish the foundation for the Lean Six Sigma concepts to hold and become part of the operating style of the corporation The tools discussed in this book are just as applicable to making management decisions based on data as they are for the Black Belts and Knowledge Workers of the

process Each chapter has a list of questions at the end intended to prod thoughts concerning concepts covered in the chapter

The Manager's Guide to Six Sigma in Healthcare Robert D. Barry, Amy C. Smith, 2005-06-30 Six Sigma reinforces current developments in healthcare management evidence based medicine service line management and magnet nursing Six Sigma fits the real healthcare world dealing with manual tasks and the exceptional needs of patients This book provides guidance to an organizational strategy that attains and sustains results It explains how to use in hand data to improve patient safety patient service and patient care for data informed decision making A section is also included on finite capacity scheduling models a key issue in hospital productivity improvement It is the first book made with strictly management in mind organized for quick and easy reference Each topic starts with a check list and follows with additional information in increasing detail The practical tips and tools included are made to be immediately applicable

Improving Healthcare Using Toyota Lean Production Methods Robert Chalice, 2006-12-14 What differentiates this book from other healthcare improvement books is that it is the only currently available book that presents a simple recipe of 46 lean steps for healthcare providers to reduce cost and improve quality By taking these straightforward steps healthcare providers can adopt the same lean methods which have enabled companies like Toyota to become so successful The first part of the book explains cost and quality issues facing U S healthcare From that understanding the second part then teaches healthcare providers a 46 step recipe to reduce costs and improve quality by using Toyota Lean Production methods With industry experts citing that as much as 40% of the total cost of healthcare production is attributed to wasteful processes it is logical that reducing waste will lower costs This is the basis of this book Although other books have presented Toyota s lean methods this book goes further by showing how to directly apply those successful methods to healthcare where they are sorely needed This book is intended to be a practical manual for healthcare providers to use to improve quality and reduce costs It can be a multi year strategic plan for healthcare providers to adopt This second edition includes additional improvement steps and five new appendices of practical examples authored by renowned lean experts

Applied Data Analysis for Process Improvement James L. Lamprecht, 2004-12-08 At last a book that offers the reader a practical approach to process improvement using examples of common problems faced by data analysts Author James L Lamprecht an experienced widely published statistician Master Black Belt teacher and consultant has succeeded in combining examples that guide the reader through data analysis Six Sigma project definition conducting experiments graphical analysis and errors to avoid all in one concise text Unlike other books on data analysis Lamprecht steers clear of classic or perfect examples preferring instead to address the everyday issues that data analysts confront and explain the value certain data does and does not offer The book includes numerous graphs that illustrate ways to intuitively analyze data Data analysis techniques are presented first then the author introduces Six Sigma concepts and integrates the two disciplines in a concluding chapter nl This book is ideal for Certified Six Sigma Black Belts as well as those who are uncertified but would like to understand how data can be analyzed

Even those who rely on sophisticated statistical software to conduct their Six Sigma analysis will benefit from this insightful yet easy to use book by developing a true understanding of statistics and a better understanding of the results they are receiving Numerous examples illustrate how various techniques are applied Each example is reviewed from the perspective of what was not said in the example in other words the very information you will be faced with when you conduct your own analysis Titles of some sections in the book include the words optional or advanced These sections cover more advanced but nonetheless useful topics but skipping these sections will not affect the overall flow of the various subjects presented

Defining and Analyzing a Business Process Jeffrey N. Lowenthal, 2002-06-30 Many references on Six Sigma stress the importance of defining processes All too often practitioners on a Six Sigma project rely on flowcharts for this crucial step Unfortunately flowcharts only show decision points and the steps taken to reach those decisions are overlooked including vital departmental interactions and communication patterns This is the focus of Defining and Analyzing a Business Process A Six Sigma Pocket Guide which helps to fill the gaps found on flowcharts and provides a more complete big picture view of the processes This pocket guide details a methodology on how to analyze your existing processes The book uses two distinct approaches first a Business Interaction Model and second an Integrated Flow Diagram Once the analysis phase is complete the pocket guide presents a method on how to innovate your process to optimize its operation The book moves away from the theory and jumps headlong into a systemic approach to change As a pocket guide it can easily be used as a reference or as a teaching aid and is ideal for anyone who uses processes at any level

The Six Sigma Performance Handbook Praveen Gupta, 2005 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Written with managers not statisticians in mind this reference shows readers how to statistically evaluate a Six Sigma program identify problems and make tailor made adjustments to get the desired results and revitalize a program Profits in tough times require prioritization and focus If properly managed Six Sigma methods can deliver dramatic improvement by increasing manufacturing and process efficiencies But nearly 60% of all corporate Six Sigma initiatives fail to yield the desired results often companies take the fighting fires approach to business and do not take time to understand what the data is telling them which is why many Six Sigma projects fail The high visibility of the Six Sigma Initiative has corporate executives committing to significant investment in resources often without any tangible improvement in profitability a fact neglected by most Six Sigma books Written with Green belts and managers in mind this reference shows readers how to statistically evaluate a Six Sigma program identify problems and make tailor made adjustments to get the desired results and revitalize a program

Technometrics, 2003 The Publishers Weekly, 1899 **Solutions to the Healthcare Quality Crisis** Søren Bisgaard, 2009-02-06 Healthcare around the world is in crisis as a result of complex structural and strategic problems that will require solutions at a very high level This book demonstrates that effective solutions based on modern quality

management principles can be applied to alleviate many problems locally within healthcare institutions. It is designed to support doctors, nurses, technicians, and administrators who are interested in applying quality management principles and the tools of Lean Six Sigma to improve healthcare within their own institutions. The book should also be of interest to politicians, policy makers, and government officials wrestling with healthcare issues. The book presents a wide selection of examples of the applications of Lean Six Sigma originally published in two of ASQ's journals: *Quality Progress* and *Six Sigma Forum Magazine* over the past few years. Each case illustrates some aspect of how to improve quality and reduce waste in healthcare institutions, whether in the direct delivery of healthcare or on the equally important administrative side. Some of the cases are from large metropolitan hospitals, and others are from smaller institutions. Most of the cases show what has worked, while a few show pitfalls or obstacles to be avoided. Chapter 1 presents some of the basic notions of Lean Six Sigma; quality management explains key concepts and terminology and makes the reading of the cases easier. The introduction is followed by Chapter 2, presenting six articles of a general nature written by healthcare professionals from a variety of healthcare institutions engaged in quality improvement, how they achieved their results, and what they learned. Chapter 3 provides eight detailed cases that describe specific applications of Lean Six Sigma to healthcare. Finally, Chapter 4 provides a discussion of lessons learned and where we go from here. This book is specifically intended for healthcare professionals with no previous background knowledge or experience with Lean Six Sigma. More broadly, it should be of interest to anyone interested in healthcare quality: doctors, nurses, pharmacists, technicians, healthcare administrators, consultants, concerned citizens, politicians, policy analysts, government officials, etc. These cases from American and European healthcare organizations of the use of Lean Six Sigma are documented by pioneering front-line healthcare professionals, doctors, nurses, and healthcare administrators willing to take personal responsibility and show leadership to improve quality and reduce the escalating costs of healthcare. This book is not about theory; it is a book for doers showing healthcare providers how to do it. It shows how they can take their destiny in their hands and do something about healthcare quality and costs.

Challenging the Future with Lean Ton van Kollenburg, Alinda Kokkinou, Olivia McDermott, 2024-08-01. This book constitutes the refereed proceedings of the 9th European Lean Educator Conference on Challenging the Future with Lean (ELEC 2023) held in s Hertogenbosch, the Netherlands, during October 24-26, 2023. There are 24 full papers presented in this book, which were carefully reviewed and selected from 35 submissions. The conference and presenting papers aimed to encourage Lean practitioners, educators, and researchers to Challenge the Future with Lean, examining how important societal issues such as war, healthcare digitalization, and sustainability can be addressed through Lean thinking.

From Zero to Black Belt: Forming Masters in Six Sigma Fabricio Sales Silva, In a world where efficiency is more than desired, it is required excellence in processes has become the beacon that guides companies and professionals towards success. Among the mists of competitiveness, Six Sigma emerges not only as a methodology but as a philosophy of life for those who seek mastery in their

endeavors From Zero to the Black Belt isn't just a book it's a key A key that opens the doors of practical knowledge where each page reveals a new perspective a refined technique a story that inspires Where others see challenges you will see opportunities Where others feel uncertainty you will feel confident For those who aspire to become Black Belt in Six Sigma this work is more than words on pages It is the star map for an ever expanding universe of possibilities and innovations Here we not only unravel the secrets kept in the bowels of Six Sigma but we also cultivate the critical mind the acumen needed to question adapt and eventually transcend And then adventurer of knowledge are you ready to embark on this journey Let go of your assumptions open your mind and allow yourself to dive into the deep waters of Six Sigma Because by the end of this reading you'll not only understand what it means to be a Black Belt you'll become one

Sustainable Supply Chains: Strategies, Issues, and Models Usha Ramanathan, Ramakrishnan Ramanathan, 2020-07-17 This book discusses supply chain issues and models with examples from actual case studies Recent advances in sustainability supply chains and technologies have brought promising potential for the management of sustainable global and local supply chains While most of the current literature seem to consider developments in the field of sustainable supply chains and in the field of Industry 4.0 as two distinct entities this book attempts to explore the synergy in bringing these two distinct fields together The book features chapters on management of sustainability and industry 4.0 on supply chains as a whole with several case studies on issues related to the application of sustainable supply chains in specific application sectors They employ mathematical modeling and statistical analyses as well as descriptive qualitative studies They cover a range of application areas including multiple sectors restaurant manufacturing logistics furniture food and insurance domains supply chains logistics marketing and reverse logistics and multiple country contexts UK and India The potential links between sustainability and the recent technological innovations from Industry 4.0 have been explored in detail The book offers a valuable tool for managerial decision making on the current practice and future potential on the use of Industry 4.0 tools for sustainable supply chains to facilitate competitive advantage with case studies in various industry sectors In addition some intriguing mathematical models will appeal to students and researchers interested in modeling the logistics process and the application of evolutionary game theory for integrating the social and economic aspects of sustainable supply chains Some of these supply chain issues have been addressed in a previous book by the Editors

Out of the Present Crisis Terence T. Burton, 2012-05-21 Today organizations have achieved an overall failure rate above 80 percent with Lean Six Sigma Lean Six Sigma and continuous improvement in general This is certainly not due to a shortage of books consultants and other online resources about the methodologies and tools or the success stories of Toyota and others However it is due to a shortage of knowledge and practice about the most critical success factors of improvement leadership sustaining infrastructure behavioral and cultural transformation and now emerging technology These factors produce 90 percent of the success with continuous and sustainable improvement the methodologies and tools represent an irrelevant 10 percent For decades most

organizations have focused on this quick and easy irrelevant 10 percent through an endless series of fad in vogue improvement programs as they attempt to mimic the best in class practices of the most successful organizations Out of the Present Crisis Rediscovering Improvement in the New Economy is the contemporary version of Deming s famous 1982 book Out of the Crisis The author builds a solid case for organizations to aggressively pursue the next generation of systematic and sustainable improvement through a combined strategy of Deming s back to basics innovation and breakthrough thinking integration of emerging and enabling technology and adaptive improvement across diverse environments and industries The book s practical pragmatic style is backed up by many real world examples and personal experiences If you re looking for another book about Lean or Six Sigma tools this is not it But it is a book about how to achieve lasting success by making improvement the cultural standard of excellence and living code of conduct in organizations This popular book provides executives with an up to date and proven reference guide for rediscovering successful systematic and sustainable improvement in today s economy The author demonstrates the importance of viewing improvement as a continuous manageable process and covers the most critical success factors of leadership sustaining infrastructure behavioral and cultural transformation and emerging technology in a practical no nonsense how to do style The book provides specific guidance for all industries including public and private corporations hospitals financial services airlines municipalities and federal state and local governments

Operational Excellence Case Studies in Higher Education Institutions Jiju Antony,Michael Sony,Elizabeth A. Cudney,Sandra L. Furterer,Chad Laux,Raja Jayaraman,Maher Maalouf,2025-10-14 In Operational Excellence Case Studies in Higher Education Institutions the chapters bring together a wide range of real life global case studies which highlight critical differences in approach due to varied cultural differences and leadership styles

Σ Sigma Unmasked Revealing Your True Nature Harshwardhan Soni,2024-09-08 Sigma Unmasked Embracing the Complexity of Individuality In Sigma Unmasked we delve deep into the intricate layers of the Sigma personality unraveling its enigmatic nature and celebrating its unique traits Through exploration and analysis this book serves as a guide to understanding and embracing the complexity of individuality From defining the Sigma archetype to examining its psychological profile strengths and challenges each chapter offers valuable insights into the Sigma experience We explore the origins of the Sigma concept contrast it with other personality types and delve into its impact on society and culture Navigating through themes of resilience authenticity and self discovery Sigma Unmasked encourages readers to embrace their true nature and harness their innate strengths for personal growth and fulfillment Whether you identify as a Sigma or seek to understand the Sigma personalities around you this book provides a comprehensive exploration of the multifaceted nature of individuality

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Table of Contents Six Sigma Journey From Art To Science

1. Understanding the eBook Six Sigma Journey From Art To Science
 - The Rise of Digital Reading Six Sigma Journey From Art To Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Six Sigma Journey From Art To Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Six Sigma Journey From Art To Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Six Sigma Journey From Art To Science
 - Personalized Recommendations
 - Six Sigma Journey From Art To Science User Reviews and Ratings
 - Six Sigma Journey From Art To Science and Bestseller Lists

5. Accessing Six Sigma Journey From Art To Science Free and Paid eBooks
 - Six Sigma Journey From Art To Science Public Domain eBooks
 - Six Sigma Journey From Art To Science eBook Subscription Services
 - Six Sigma Journey From Art To Science Budget-Friendly Options
6. Navigating Six Sigma Journey From Art To Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Six Sigma Journey From Art To Science Compatibility with Devices
 - Six Sigma Journey From Art To Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Six Sigma Journey From Art To Science
 - Highlighting and Note-Taking Six Sigma Journey From Art To Science
 - Interactive Elements Six Sigma Journey From Art To Science
8. Staying Engaged with Six Sigma Journey From Art To Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Six Sigma Journey From Art To Science
9. Balancing eBooks and Physical Books Six Sigma Journey From Art To Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Six Sigma Journey From Art To Science
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Six Sigma Journey From Art To Science
 - Setting Reading Goals Six Sigma Journey From Art To Science
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Six Sigma Journey From Art To Science
 - Fact-Checking eBook Content of Six Sigma Journey From Art To Science
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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