

Update to the AIAG- SPC Reference Manual

Michael Down

General Motors Corporation/SPC Rewrite Chairman

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SPC Rewrite Committee

ABSTRACT

The SPC reference manual was one of the first manuals released by Ford, GM, and DaimlerChrysler (formally Chrysler) to communicate the methods and application of Statistical Process Control. It has been useful, but it was released in the early 80's and required updating in relation to style, changes in philosophy, and the introduction of new methods.

INTRODUCTION

SPC- Statistical Process Control has been around for many years, first created by Walter Shewhart in the 1920. It came to the forefront by Dr. W. Edwards Deming's teaching and application in Japan in the mid 40's after World War Two and into the early 80's when it became recognized in the US. It eventually became a requirement of all US automotive suppliers to have proof of the application of SPC and that the parts being delivered were from a stable process.

MAIN SECTION

The main purpose of this paper is to review the philosophy used in the development of the new SPC reference manual, the changes and additional methods reviewed and supported.

PHILOSOPHY OF THE SUBCOMMITTEE

Prior to starting the rewrite the committee established specific norms to follow while developing the manual. They were as follows:

- Update the format to match current manuals
- Evaluate order, improve logic
- Customer focused: Easier to use and understand
- Reduce focus on indices
- Up-front reinforce the need for a system of application and analysis
- Add additional methods that have been introduced since the manual was published
- Improve the glossary and index
- Review and update reference list

Introduction

The manual contains information from the basics of SPC, management support process, the common statistical methods, and additional methods that can be used in special situations. The introduction sets the stage by showing the importance of using SPC to define variation.

- Establish where the process is centered
- Whether the process is stable or unstable
- The amount of variation that exists.

Data, Results, and Measurement

Decisions and estimates are based on a perception of what the population is doing. The quality of this perception is based on a number of issues.

- Homogeneous population
- Distribution of the population
- Sampling plan
- Whether the process and population are stable
- Measurement variation
- Interdependent variables

The stability and uniformity of the population is critical to understand prior to collecting and analyzing data. The uniformity and stability of the population impact the way that collect the data and the way the data is analyzed. This is not just a "point of view", it always exist whether it taken into account or ignored. In most cases a normal distribution (bell curve) in relation to a continuous process.

Sampling can also impact the results of data collection and analysis. In some cases a randomized sample is required. This means by where, when and how the sample is taken from the population. Randomization helps to limit bias and also gives a better picture of what the variation in the population looks like. In other cases, the sample isn't random; parts are either specifically selected or made to specific requirements. This often occurs in engineering development or when problem solving issues. (Note: Distribution, Uniformity, and stability of the population are assumed/ Measurement variation is small)

Aiag Reference Manual

**Magdalena Diering, Michał
Wieczorowski, Christopher A. Brown**

Aiag Reference Manual:

QS-9000 Handbook Jayanta Bandyopadhyay,1996-04-01 Here is a survival strategy for suppliers to the automotive industry With QS 9000 serving as the new harmonized quality systems requirement of internal and external suppliers for Chrysler Ford General Motors as well as other automobile and truck manufacturers and assemblers the QS 9000 Handbook is your practical guide for achieving registration Any company that wishes to achieve registration must provide evidence of quality production to third party audits of the registrar The QS 9000 Handbook will do just that as well as show you how to document your quality systems train personnel in quality and improve the effectiveness of any independent quality assurance functions inside your operation *The Certified Quality Engineer Handbook* Rachel Silvestrini,Sarah E. Burke,2017-01-25 A comprehensive reference manual to the Certified Quality Engineer Body of Knowledge and study guide for the CQE exam

The Certified Quality Inspector Handbook H. Fred Walker,Ahmad K. Elshennawy,2019-03-09 The quality inspector is the person perhaps most closely involved with day to day activities intended to ensure that products and services meet customer expectations The quality inspector is required to understand and apply a variety of tools and techniques as codified in the American Society for Quality ASQ Certified Quality Inspector CQI Body of Knowledge BoK The tools and techniques identified in the ASQ CQI BoK include technical math metrology inspection and test techniques and quality assurance Quality inspectors frequently work with the quality function of organizations in the various measurement and inspection laboratories as well as on the shop floor supporting and interacting with quality engineers and production service delivery personnel This handbook supports individuals preparing to perform or those already performing this type of work It is intended to serve as a ready reference for quality inspectors and quality inspectors in training as well as a comprehensive reference for those individuals preparing to take the ASQ CQI examination Examples and problems used throughout the handbook are thoroughly explained are algebra based and are drawn from real world situations encountered in the quality profession To assist readers in using this book as a ready reference or as a study aid the book has been organized to conform explicitly to the ASQ CQI BoK Each chapter title all major topical divisions within the chapters and every main point has been titled and then numbered exactly as they appear in the CQI BoK *The Quality Calibration Handbook* Jay L. Bucher,2007-01-01 If a business expects to be a player in their market segment their products must have the quality expected by their customers This can only be accomplished with test equipment that produces repeatable accurate and traceable measurements and or outputs Without a quality calibration system in place this cannot and will not happen This book is about how to design implement maintain and continuously improve a quality calibration system with all the required documentation traceability and known uncertainty for each and every item of test equipment owned and used by any company large or small It will benefit companies that want to implement a program and also those that already have one in place Some industries have tighter requirements than others on how they treat calibration some are more specific about how their standards are read

while being vague about what is needed to meet calibration Is there one tried and true quality calibration system that every organization can use as a foundation for its personalized program There certainly is and The Quality Calibration Handbook describes it By using the quality calibration system outlined and demonstrated any organization can put together its own version to meet its specific requirements and or regulations Quality calibration systems are the very foundation for improving research and development R D production and quality assurance arenas through accurate reliable and traceable calibrations of their test equipment By ensuring the calibration of test equipment used in the production of genetic identity kits used by law enforcement at crime scenes the guilty are often caught and the innocent exonerated Calibrated test equipment used in support of the airline and automotive industries helps prevent disasters At pharmaceutical companies calibration technicians quietly lay the foundation for quality treatments that help keep us healthy cure diseases and sometimes prevent death This book explains why a quality calibration system can be the difference between life and death success and failure and most important to shareholders and boards of directors profit and loss

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Innovations in Safety Management

Fred A. Manuele, 2001-09-24 Based on an exclusive author survey of corporate and divisional safety directors this principal book on career enhancement and effective performance in safety management expertly covers the competencies necessary for success in this continually transitioning field The coverage is so extensive each chapter could be used as the subject of a professional society course Innovations in Safety Management establishes a knowledge base of financial management fundamentals to open communications between safety professionals and management It will facilitate deeper comprehension of executive decision making so that safety strategies can be delivered in business terms Also it will assist safety practitioners in establishing personal value within a company and communicating that value to management Also detailed in this book are The theoretical ideal for optimum safety performance The Safety Decision Hierarchy placing the hierarchy of controls within tried and proven problem solving techniques Why safety practitioners need to know about hazard analysis and risk assessment A primer on hazard analysis and risk assessment How to prevent bringing hazards into the workplace

Methodology for extending task analysis to further establish value A new three dimensional risk scoring system Behavioral safety A history of the Safety Through Design movement This book was written with consideration for everyone responsible for safety in all businesses regardless of professional title including safety practitioners human relations directors and management personnel **Advances in Manufacturing II** Magdalena Diering, Michał Wieczorowski, Christopher A.

Brown, 2019-05-08 This book gathers timely contributions on metrology and measurement systems across different disciplines and field of applications The chapters which were presented at the 6th International Scientific Technical Conference MANUFACTURING 2019 held on May 19 21 2019 in Poznan Poland cover cutting edge topics in surface metrology biology chemistry civil engineering food science material science mechanical engineering manufacturing metrology nanotechnology physics tribology quality engineering computer science among others By bringing together engineering and economic topics the book is intended as an extensive timely and practice oriented reference guide for both researchers and practitioners It is also expected to foster better communication and closer cooperation between universities and their business and industry partners **10th International Conference on Soft Computing Models in Industrial and Environmental Applications** Álvaro Herrero, Javier Sedano, Bruno Baruque, Héctor Quintián, Emilio

Corchado, 2015-05-31 This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at the 10th International Conference on Soft Computing Models in Industrial and Environmental Applications SOCO 2015 held in the beautiful and historic city of Burgos Spain in June 2015 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena This Conference is mainly focused on its industrial and environmental applications After a through peer review process the SOCO 2015 International Program Committee selected 41 papers written by authors from 15 different countries These papers are published in present conference proceedings achieving an acceptance rate of 40% The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the International Program Committees for their hard work during the review process This is a crucial issue for creation of a high standard conference and the SOCO conference would not exist without their help *A First*

Course in Quality Engineering , 2011-08-29 Completely revised and updated A First Course in Quality Engineering Integrating Statistical and Management Methods of Quality Second Edition contains virtually all the information an engineer needs to function as a quality engineer The authors not only break things down very simply but also give a full understanding of why each topic covered i **The Certified Six Sigma Master Black Belt Handbook** T.M. Kubiak, 2012-11-19 Organizations

are continuously trying to improve by reducing cost increasing customer satisfaction and creating an environment of empowered employees who continuously strive for excellence in each process and product In much the same way governments are continuously required to do more with less enhance budget and organizational performance and identify

innovative ways to increase their impact There are challenges to applying the Lean Six Sigma LSS tools in the public sector Examples of these challenges include hierarchical environments a lack of common goals and the complexity of working in the public sector The information included as part of this book provides over 30 spotlights highlighting project examples lessons learned and tips and tricks for using LSS in the public sector These spotlights are based on interviews facilitated with a robust sampling of senior operations strategy practitioners The LSS methodology focuses on eliminating waste lean and then reducing variation Six Sigma in a process or product that contains no waste The information covered in this book will allow someone to have an immediate impact in any public sector organization It describes some of the most powerful continuous process improvement tools that can be used with limited training required This is further enhanced by showing direct correlations to the LSS tools and the challenges that will be faced Because the public sector spans such a diverse range of organizational charters such as transportation education and defense this book does not focus solely on either manufacturing or services Rather it provides a balanced approach to utilizing LSS in all environments

Leading High-Reliability Organizations in Healthcare Richard Morrow, 2016-03-15 This book details the attributes and practices that help high reliability organizations HROs excel in the service they provide to their customers Explaining what it takes to achieve high reliability in healthcare settings it presents proven tools and concepts that leading healthcare organizations are using to improve safety and quality The book identifies the necessary infrastructure methods and analytics required to achieve and sustain higher reliability It also includes case studies that illustrate success stories and failures so readers can avoid making the same mistakes

The Enigmatic Realm of **Aiag Reference Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Aiag Reference Manual** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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