

# 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 communize 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 were the process is centered
- Whether the process is stable or unstable
- The about 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 Spc Reference Manual

**Sabine Zange**

## **Aiag Spc Reference Manual:**

*Statistical Process Control , 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

### **Advanced**

**Product Quality Planning** D. H. Stamatis,2018-11-12 This book defines develops and examines the foundations of the APQP Advanced Product Quality Planning methodology It explains in detail the five phases and it relates its significance to national international and customer specific standards It also includes additional information on the PPAP Production Part Approval Process Risk Warranty GD T Geometric Dimensioning and Tolerancing and the role of leadership as they apply to the continual improvement process of any organization Features Defines and explains the five stages of APQP in detail Identifies and zeroes in on the critical steps of the APQP methodology Covers the issue of risk as it is defined in the ISO 9001 IATF 16949 the pending VDA and the OEM requirements Presents the role of leadership and management in the APQP methodology Summarizes all of the change requirements of the IATF standard

### **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

**Implementing Six Sigma** Forrest W. Breyfogle, III,2003-11-10 Das bew hrte Handbuch zum

Statistiktool Six Sigma jetzt in neuer aktualisierter Auflage besprochen werden. Gleichzeitig werden Verfahren und deren Implementation erweiterte Behandlung und des Benchmarkings mit vielen praxisnahen Beispielen enthält. Es gibt Checklisten und Übersichten über häufig auftretender Fehler.

*Sustaining a Culture of Process Control and Continuous Improvement* Philip J. Gisi, 2018-05-16

This comprehensive book presents a methodology for continuous process improvement in a structured, logical and easily understandable framework based on industry accepted tools, techniques and practices. It begins by explaining the conditions necessary for establishing a stable and capable process and the actions required to maintain process control while setting the stage for sustainable efficiency improvements driven by waste elimination and process flow enhancement. This structured approach makes a clear connection between the need for a quality process to serve as the foundation for incremental efficiency improvements. This book moves beyond talking about the value contribution of tools and techniques for process control and continuous improvement by focusing on the daily work routines necessary to maintain and sustain these activities as part of a lean process and management mindset. Part 1 discusses process quality improvement with an understanding of variation and its impact on process performance. It continues by stressing the importance of standardizing a process to achieve process stability. Once process stability is reflected in a consistent and predictable output, attention is turned to ensuring the process is capable of consistently meeting customer requirements. This series of activities sets the foundation for process control and the sustainable pursuit of efficiency improvements. Part 2 focuses on efficiency improvement by eliminating waste while improving process flow using proven tools and methods. Although there is a clear relationship between waste elimination and process flow, these activities are discussed separately to allow those more interested in waste elimination to work independently from those looking to optimize value stream flow. Part 3 explores the principles, practices, systems and behaviors required to maintain process control while creating a mindset of continuous incremental improvement. It considers the role organizational structure, discipline and accountability play as essential components for long term operational success. This book will provide readers with a clear roadmap for establishing, achieving and maintaining process control as the foundation upon which to pursue efficiency improvements. Establish direction and methods for continuous and sustainable process improvement. Define the practices, systems and behaviors required to realize desired results and develop a culture of process control and continuous improvement along the road to operational excellence.

**Electronic Systems Quality Management Handbook** Marsha Ludwig-Becker, 1997

Annotation: Quality management for electronic systems has grown far beyond the basic inspection techniques of the past. New performance-based quality management approaches are now used at every electronics company, from huge corporations to small start-ups. This book goes beyond generic quality approaches to present an electronics specific program for quality management.

**Business Deployment** Forrest W. Breyfogle, III, 2008-04

Integrated Enterprise Excellence (IEE) introduces a new organizational governance system that integrates analytics with innovation. The IEE system shows business leaders what to

measure and report when and how to report it how to interpret and use the results to establish goals how to orchestrate work activities and how to develop strategies that are consistent with established goals These strategies ultimately lead to specific projects that enhance organizational focus and success This volume discusses problems encountered with traditional scorecard business management and enterprise improvement systems describes how IEE helps organizations overcome these issues by utilizing an enterprise process define measure analyze improve control E DMAIC system and details the execution of this system   **ESD Technology** ,1992   **Lawyers Desk Reference** ,2001   *IEEE International Electric Machines and Drives Conference Record* ,1997   **Statistical Process Control (SPC)** ,1995   **Six Sigma Distribution Modeling**

Andrew Sleeper,2007-01-09 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 Sleeper provides six sigma practitioners with the tools which will allow them to stand out from your competitors by using advanced statistical and modeling tools for more in depth analysis Understanding and properly utilizing statistical data distributions is one of the most important and difficult skills for a six sigma practitioner to possess Sleeper provides six sigma practitioners with a road map for selecting and using distributions for more precise outcomes With the added value of Crystal Ball Modeling software this book becomes a powerful tool for analyzing and modeling difficult data quickly and efficiently   **Minitab Demystified** Andrew Sleeper,2011-08-10 Need to learn Minitab Problem Solved Get started using Minitab right way with help from this hands on guide Minitab Demystified walks you through essential Minitab features and shows you how to apply them to solve statistical analysis problems Featuring coverage of Minitab 16 this practical guide explores the Minitab interface and the full range of Minitab graphics Distribution models statistical intervals hypothesis testing and sample size calculations are clearly explained The book covers modeling tools of regression and the design of experiments DOE as well as the industrial quality tools of measurement systems analysis control charts capability analysis acceptance sampling and reliability analysis

Detailed examples and concise explanations make it easy to understand the material and end of chapter quizzes and a final exam help reinforce key concepts It s a no brainer You ll learn about Accessing powerful Minitab functions with the Minitab assistant Confidence prediction and tolerance intervals Designing and analyzing experiments with hard to change variables Statistical process control SPC Six Sigma applications and quality control Predicting the economic impact of sampling Analyzing life data with additional variables Simple enough for a beginner challenging enough for an advanced student and thorough enough for a Six Sigma professional Minitab Demystified is your shortcut to statistical analysis success

**Preparing Your Company for QS-9000** Richard Barrett Clements,Stanley M. Sidor,Rand E. Winters,1996   **Quality Progress** ,1993   *Exposing the Myths of Industrial Precision Measurement Control* Richard Clark,2006 The goal of today s industrial facility is to exceed their customers expectations for quality in the products they produce and the foundation for meeting that goal is the measurements or control of the measurements system used to determine the status of the quality

This book examines what national and international standards actually say and don't say about the application and control of inspection measurement and test equipment. In easy to follow detail it discusses how to build a strong system that meets both the letter and the intent of these standards by designing, developing, implementing and maintaining an inspection measurement and test equipment control system as required to achieve and sustain ISO QS or TS certification. **Randall's Practical Guide to ISO 9000** Richard C. Randall, 1995 Randall's Practical Guide to ISO 9000 offers well organized and easy to use coverage of how to understand, register for and implement the new ISO 9000 Standard for certification.

**Operations Management: Operations planning and control** David Bennett, 2006 [ASQC ... Annual Quality Congress Proceedings](#), 1995

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