

Update to the AIAG- SPC Reference Manual

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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)

Spc Reference Manual

Forrest W. Breyfogle, III



Spc Reference Manual:

Statistical Process Control (SPC) ,1995 **SPC-3: Statistical Process Control Reference Manual**
DaimlerChrysler Corporation,2005 *Statistical Process Control (SPC)* ,1992 **MSC Nastran 2012 Quick Reference**
Guide MSC Software,2011-11-15 The ISO/TS 16949 Answer Book Radley M. Smith,Roderick A. Munro,Ronald J.
Bowen,2004 **IBM® PC AT User's Reference Manual** Gilbert Held,1985 **Qs-9000 Registration and**
Implementation Naroola,1996-09-04 Focuses on the improvement of quality customer satisfaction and profitability The text
provides a proven step by step method for achieving QS 9000 registration economically and efficiently TAP PDSA Train
Analyze and Plan Plan Do Study Act It delineates successful registration efforts conducted by the author using the TAP PDSA
approach **Statistical Process Control (SPC)** ,2005 **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 t glich ben tigte
Verfahren und deren Implementation erweiterte Behandlung u a des Benchmarkings mit vielen praxisnahen bungen enth lt
Pl ne Checklisten und bersichten h ufig auftretender Fehler **The Certified Six Sigma Black Belt Handbook** T.M.
Kubiak,Donald W. Benbow,2016-12-16 The best Six Sigma black belt handbook has been fully revised updated and expanded
This third edition has been updated to reflect the most recent ASQ a href <https://asq.org/cert-six-sigma-black-belt>Six Sigma
Black Belt Body of Knowledge BOK released in 2015 Among the many additions are more exercises particularly to address
the more difficult concepts new tables and figures to clarify concepts new content between the DMAIC parts of the book that
is Parts IV VII to help smooth the transition between phases and to better relate the underlying concepts of the DMAIC
methodology and more content that ensures that the black belt is fully trained in concepts taught to the green belt The
primary audience for this work is the individual who plans to prepare to sit for the Six Sigma black belt certification
examination A secondary audience for the handbook is the quality and Six Sigma professional who would like a relevant Six
Sigma reference book The accompanying CD contains 180 supplementary problems covering each chapter and a 150
question simulated exam that has problems distributed among chapters per the scheme published in the BOK New to this
edition the problems are now fully worked so that readers can more readily follow the problem solving process

Spc Reference Manual Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Spc Reference Manual**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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