

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 Manual For Spc

Sabine Zange



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Statistical Process Control , Statistical Process Control (SPC) ,1995 *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 **Understanding ISO 9001 : 2015 Quality Management System, 2nd Edition, Revised and Expanded** Virendra Kumar Gupta,2017-06-15 The 2015 version of ISO 9001 brings many enriching changes to promote quality excellence by organizations The most significant change is the reinforcement of the fact that ISO 9001 is not just a quality issue It is relevant as an overarching management topic The book explains the requirements of the revised 2015 version of ISO 9001 in simple and practical manner The objective has been to enhance understanding of the subject matter by managers and quality professionals A conceptual understanding shall enable managers and professionals to design better systems and processes uniquely suited to their respective organizations In view of this the first five chapters of the book explain concepts on QUALITY PROCESS PROCESS APPROACH MANAGEMENT and PDCA These are relevant for all management system standards being developed by International Organization for Standardization with the High Level Structure Part II of the book goes into details of each clause focusing on processes and process interactions We expect that the readers will appreciate that ISO 9001 now focuses more on expected outcomes through processes than mandating too many requirements *Measurement of Geometric Tolerances in Manufacturing* James D. Meadows,1998-05-28 This insightful reference demonstrates a system of measurement inspection gaging geometric tolerancing and fixturing of products in full compliance with the American National Standards Institute ANSI the American Society of Mechanical Engineers ASME and the International Organization for Standardization ISO approved standards **An Introduction to Acceptance Sampling and SPC with R** John Lawson,2021-02-25 An Introduction to Acceptance Sampling and SPC with R is an introduction to statistical methods used in monitoring controlling and improving quality Topics covered include acceptance sampling Shewhart control charts for Phase I studies graphical and statistical tools for discovering and eliminating the cause of out of control conditions Cusum and EWMA control charts for Phase II process monitoring and the design and analysis of experiments for process troubleshooting and discovering ways to improve process output Origins of statistical quality control and the technical topics presented in the remainder of the book are those

recommended in the ANSI ASQ ISO guidelines and standards for industry The final chapter ties everything together by discussing modern management philosophies that encourage the use of the technical methods presented earlier In the modern world sampling plans and the statistical calculations used in statistical quality control are done with the help of computers As an open source high level programming language with flexible graphical output options R runs on Windows Mac and Linux operating systems and has add on packages that equal or exceed the capability of commercial software for statistical methods used in quality control In this book we will focus on several R packages In addition to demonstrating how to use R for acceptance sampling and control charts this book will concentrate on how the use of these specific tools can lead to quality improvements both within a company and within their supplier companies This would be a suitable book for a one semester undergraduate course emphasizing statistical quality control for engineering majors such as manufacturing engineering or industrial engineering or a supplemental text for a graduate engineering course that included quality control topics

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

Coloring of Plastics Robert A. Charvat, 2005-02-25 Expert coverage of the state of the art in plastics coloring This latest edition of *Coloring of Plastics Fundamentals* offers an updated introduction to color as a science while also providing the foundation for many additional technological subjects The basic families of colorants are described along with their properties The material examines how statistical analysis can improve the consistency of colored polymer production runs as well as the colorants used to match the color Other important topics covered in *Coloring of Plastics Fundamentals Second Edition* include Environmental issues and the reuse of discarded material Potential problems with the interaction between colorants and other additives Measurement information and matching visually and instrumentally Techniques for incorporating colorants into polymers as compounds or concentrates Special effect colorants Polymer and colorant manufacturers plastics compounders and coating and synthetic fiber industries will acquire an enhanced appreciation of the complex technological issues a colorist must consider if a plastics coloring project is to succeed

[The ASQ Certified Six Sigma Green Belt Handbook](#) Roderick A. Munro, Govindarajan Ramu, Daniel J. Zrymiak, 2022-06-30 This handbook is designed to help candidates preparing for the ASQ Six Sigma Green Belt certification exam Meant for those who already understand the basic concepts of reducing variation and improving processes it also serves as a helpful reference to the appropriate materials needed to conduct successful Green Belt projects The layout of the handbook is mapped to the 2022 version of ASQ's Body of Knowledge BoK This revised edition includes new information about SMART goals key process indicators Takt time just in time processes and spaghetti diagrams The Kano model risk management business continuity planning SWOT analysis and RACI charts Data collection plans and quality checks Gap analysis 5 Whys analysis and fault tree analysis Maintaining quality improvements Document control audits training plans the PDCA cycle Andon and Jidoka system

[The Certified Six Sigma](#)

Green Belt Handbook, Second Edition Roderick A. Munro, Govindarajan Ramu, Daniel J. Zrymiak, 2015-05-13 This reference manual is designed to help those interested in passing the ASQ's certification exam for Six Sigma Green Belts and others who want a handy reference to the appropriate materials needed to conduct successful Green Belt projects. It is a reference handbook on running projects for those who are already knowledgeable about process improvement and variation reduction. The primary layout of the handbook follows the ASQ Body of Knowledge BoK for the Certified Six Sigma Green Belt CSSGB updated in 2015. The authors were involved with the first edition handbook and have utilized first edition user comments, numerous Six Sigma practitioners, and their own personal knowledge gained through helping others prepare for exams to bring together a handbook that they hope will be very beneficial to anyone seeking to pass the ASQ or other Green Belt exams. In addition to the primary text, the authors have added a number of new appendixes, an expanded acronym list, new practice exam questions, and other additional materials.

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