

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)

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Clemens Wendtner

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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.

Potential Failure Mode and Effects Analysis (FMEA) AIAG. Automotive Industry Action Group, 2001 Design FMEA Development of a design FMEA Follow up actions Process FMEA Development of a process FMEA Follow up actions

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 Handbook of Modern Manufacturing Techniques

William Jones, 1998 This handbook provides an introduction to modern manufacturing techniques explaining their concepts and capabilities. It covers employee empowerment, total quality management, quality systems, ISO 9000 and QS 9000, total preventative maintenance, just in time manufacturing, computer simulations, process reengineering and project management.

Business Performance Measurement and Management Paolo Taticchi, 2010-01-22 Measuring and managing the performance of a business is one of the most genuine desires of management. Balanced scorecard, the performance prism and activity based management are the most popular frameworks in this setting. Based on the findings of R G Eccles acclaimed Performance Measurement Manifesto 1991 this book introduces new contexts and themes of application and presents emerging research areas related to business performance measurement and management e.g. SMEs and sustainability. As a result of the 1st International Summer School Piero Lunghi on Perspectives of Business Performance Management this book is written both for students and academics as well as for practitioners looking for new yet proven ways to measure and manage business performance.

Implementing Six Sigma Forrest W. Breyfogle, III, 2003-11-10 Das bewährte Handbuch zum Statistiktool Six Sigma jetzt in neuer aktualisierter Auflage besprochen werden. Es gliedert sich in die Verfahren und deren Implementation erweiterte Behandlung und das Benchmarking mit vielen praxisnahen Beispielen. Checklisten und Übersichten zu häufig auftretender Fehler.

Vehicle and Automotive Engineering 3 Károly Jármai, Katalin Voith, 2020-10-19 This book presents the proceedings of the third Vehicle and Automotive Engineering conference reflecting the outcomes of

theoretical and practical studies and outlining future development trends in a broad field of automotive research The conference s main themes included design manufacturing economic and educational topics *Lawyers Desk Reference* ,2001 **Problem Solving for New Engineers** Melisa Buie,2017-07-20 This book brings a fresh new approach to practical problem solving in engineering covering the critical concepts and ideas that engineers must understand to solve engineering problems Problem Solving for New Engineers What Every Engineering Manager Wants You to Know provides strategy and tools needed for new engineers and scientists to become apprentice experimenters armed only with a problem to solve and knowledge of their subject matter When engineers graduate they enter the work force with only one part of what s needed to effectively solve problems Problem solving requires not just subject matter expertise but an additional knowledge of strategy With the combination of both knowledge of subject matter and knowledge of strategy engineering problems can be attacked efficiently This book develops strategy for minimizing eliminating and finally controlling unwanted variation such that all intentional variation is truly representative of the variables of interest **Statistical Process Control , The Six Sigma Handbook, Fourth Edition** Thomas Pyzdek,Paul A. Keller,2014-05-29 The most complete current guide to Six Sigma Best practices in Six Sigma are continuously evolving just as Six Sigma itself evolved from earlier best practices in quality improvement This fourth edition features expanded materials on innovation strategic development Lean and constraint management You ll notice many references to free online materials within the text such as Excel file templates that can be used for analyzing projects or videos that provide an in depth narrative on specific topics Additional links will be added over time to further extend the learning potential offered by the text so be sure to regularly check back into the online site at <https://www.mhprofessionalresources.com/sites/ssh4> From the Preface by Paul Keller The Six Sigma approach is being used to vastly improve processes profitability sustainability and long term growth at global organizations of all sizes Fully revised for the latest developments in the field The Six Sigma Handbook Fourth Edition reveals how to successfully implement this improvement strategy in your company The book explains how to define and deploy Six Sigma projects focused on key stakeholder requirements and carry out data driven management This comprehensive resource walks you through the phases of DMAIC and DMADV and demonstrates how to use the statistical tools and problem solving techniques of Six Sigma with screenshots of Minitab and Excel applications The new edition has been updated to include Two online quizzes for Six Sigma certification one for Green Belt candidates and one for Black Belt candidates Links to five videos that walk you through specific processes such as Minitab functions statistical process control and how to read a Pareto chart Fully incorporated coverage of Lean methodologies Find out how to select the right personnel to train achieve technical proficiency build the best teams and foster effective leadership Improve the quality of processes and products in your organization increase customer satisfaction and boost profits with help from this definitive guide to Six Sigma Written by two of the foremost authorities on the subject this authoritative resource delivers all of the guidance you need to successfully implement Six

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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 **IEEE International Electric Machines and Drives Conference Record** ,1997 Quality Manager's Complete Guide to ISO 9000 Richard B. Clements,1999

Statistical Process Control (SPC) ,1995

ESD Technology ,1992 SAE Surface Vehicle Emissions Standards Manual ,1998 Six Sigma Handbook, Fourth Edition (ENHANCED EBOOK) Thomas Pyzdek,Paul A. Keller,2014-05-29

This fully revised bestseller integrates Lean methodologies and certification coverage and features bonus videos quizzes and sample files The Six Sigma Handbook Fourth Edition reveals

how to realize significant gains in quality productivity and sales in any organization This new edition offers vast improvements to examples and offers videos sample data files for download and online quizzes for all levels of Six Sigma certification The content features further integration of Lean methods and examples healthcare examples risk management and case studies of various deployment and analysis techniques Includes two sample quizzes for Six Sigma certification one for Green Belt candidates and one for Black Belt candidates Links to five videos that walk you through specific processes such as Minitab functions statistical process control and how to read a Pareto chart Clearly defines the management responsibilities and actions necessary for successful deployment Fully incorporates Lean problem solving and statistical techniques within the Six Sigma methodology **Measurement Systems Analysis** ,1990 **Design for Six Sigma**

Statistics : 59 Tools for Diagnosing and Solving Problems in DFSS Initiatives Andrew Sleeper,2005-12-05 In today's competitive environment companies can no longer produce goods and services that are merely good with low defect levels they have to be near perfect Design for Six Sigma Statistics is a rigorous mathematical roadmap to help companies reach this goal As the sixth book in the Six Sigma operations series this comprehensive book goes beyond an introduction to the statistical tools and methods found in most books but contains expert case studies equations and step by step MINTAB instruction for performing DFSS Design of Experiments Measuring Process Capability Statistical Tolerancing in DFSS and DFSS Techniques within the Supply Chain for Improved Results The aim is to help you better diagnosis and root out potential problems before your product or service is even launched

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