

Update to the AIAG- SPC Reference Manual

Michael Down

General Motors Corporation/SPC Rewrite Chairman

Greg Gruska, Peter Cvetkovski (Ford), Dave Benham (DaimlerChrysler)

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 Spc Referance Manual

**Forrest W. Breyfogle, III, James M.
Cupello, Becki Meadows**



Aiag Spc Referance 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 **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 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 **Failure Analysis - Structural Health Monitoring of Structure and**

Infrastructure Components Gobinath Ravindran,Vutukuru Mahesh,Moustafa Moufid Kassem,2023-10-18 Failure Analysis Structural Health Monitoring of Structure and Infrastructure Components is a collection of chapters written by academicians researchers and practicing engineers from all over the world The chapters focus on some developments as well as problems in structural health monitoring SHM in civil engineering structures and infrastructures The book covers a variety of multidisciplinary topics including SHM risk analysis seismic analysis and various modeling and simulation methodologies

This book is an excellent resource for undergraduate and postgraduate students academics and researchers across a wide variety of engineering disciplines as well as for practicing engineers and other professionals in the engineering industry

Managing Six Sigma Forrest W. Breyfogle, III, James M. Cupello, Becki Meadows, 2000-10-11 Advance Praise for Managing Six Sigma This book is a unique blend of practical knowledge and cultural change revolution and evolution strategies I recommend that serious managers buy the book spend some serious time reading and then go out and use its lessons to make a name for themselves William Baker Benchmarking Knowledge Transfer Office Raytheon Corporation I believe Managing Six Sigma will be the new reference standard for the quality movement in coming years Robert T Hunter Executive Vice President Rehnborg Center for Nutrition and Wellness The authors step by step process for integrating the tools of Six Sigma takes the mystery out of this methodology and by itself makes this book worth having Dennis Adsit PhD Vice President Quality Intuit Breyfogle's Six Sigma deployment methodology is explained in detail for four different business processes manufacturing service transactional and development His 21 step plan for each business process is explained in a way that allows any type of company to perform a successful implementation Mark Feller Director of Quality Baker Electronics Breyfogle teaches not only the wider application but also the deeper implications and in depth implementation of Six Sigma deployment in organizations large and small Ram Josyula President gelrad.com Managing Six Sigma is the only book that provides both detailed coverage of Six Sigma techniques and effective methods for managing those who implement Six Sigma With real world case studies recounting the triumphs and pitfalls encountered during successful implementations at Motorola and General Electric plus plans checklists and metrics to speed up the implementation process this rich resource helps managers solve problems effectively and ensure a fast smooth and successful Six Sigma implementation

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 **ESD Technology**, 1992 *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 *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

Quality Improvement Through Statistical Methods Bovas Abraham, 2012-12-06 This book is based on the papers presented at the International Conference Quality Improvement through Statistical Methods in Cochin India during December 28 31 1996 The Conference was hosted by the Cochin University of Science and Technology Cochin India and sponsored by the Institute for Improvement in Quality and Productivity IIQP at the University of Waterloo Canada the Statistics in Industry Committee of the International Statistical Institute ISI and by the Indian Statistical Institute There has been an increased interest in Quality Improvement QI activities in many organizations during the last several years since the airing of the NBC television program If Japan can why can t we Implementation of QI methods requires statistical thinking and the utilization of statistical tools thus there has been a renewed interest in statistical methods applicable to industry and technology This revitalized enthusiasm has created worldwide discussions on Industrial Statistics Research and QI ideas at several international conferences in recent years The purpose of this conference was to provide a forum for presenting and exchanging ideas in Statistical Methods and for enhancing the transference of such technologies to quality improvement efforts in various sectors It also provided an opportunity for interaction between industrial practitioners and academia It was intended that the exchange of experiences and ideas would foster new international collaborations in research and other technology transfers

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Quality Management and Six Sigma Abdurrahman Coskun, 2010-08-16 If you do not measure you do not know and if you do not know you cannot manage Modern Quality Management and Six Sigma shows us how to measure and consequently how to manage the companies in business and industries Six Sigma provides principles and tools that can be applied to any process as a means used to measure defects and or error rates In the new millennium thousands of people work in various companies that use Modern Quality Management and Six Sigma to reduce the cost of products and eliminate the defects This book provides the necessary guidance for selecting performing and evaluating various procedures of Quality Management and particularly Six Sigma In the book you will see how to use data i e plot interpret and validate it for Six Sigma projects in business industry and even in medical laboratories

Outdoor Atmospheric Corrosion Herbert E. Townsend, 2002 A May 2001 symposium in Phoenix Arizona was originally intended to present results of the Society's 1976 international outdoor atmospheric corrosion test program it was soon combined with another being planned on indoor corrosion but the indoorists stayed home so all of the 29 papers consider ou

Lean Six Sigma Green Belt - English version ir. H.C. Theisens, 2021-10-14 The structure of this book is based on the LSSA Skill set for Lean and Six Sigma Green Belt All of the techniques described in these Skill set will be reviewed in this book The Lean elements will be discussed in chapter 1 to 6 The Six Sigma elements will be discussed in chapters 7 and 8 This book can be used for two purposes Firstly it acts as a guide for Green Belts undertaking a Lean or Six Sigma project following the DMAIC roadmap Define Measure Analyze Improve Control Secondly this book serves to determine where the organization stands and what the best strategy is to get to a higher CIMM level

Quality Management for Organizations Using Lean Six Sigma Techniques Erick Jones, 2014-02-25 The next step in the evolution of the organizational quality field Lean Six Sigma LSS has come of age However many challenges to using LSS in lieu of in conjunction with or integrated with other quality initiatives remain An update on the current focus of quality management Quality Management for Organizations Using Lean Six Sigma Techniqu

Process-Structure-Properties in Polymer Additive Manufacturing Swee Leong Sing, Wai Yee Yeong, 2021-09-01 Additive manufacturing AM methods have grown and evolved rapidly in recent years AM for polymers is an exciting field and has great potential in transformative and translational research in many fields such as biomedical aerospace and even electronics Current methods for polymer AM include material extrusion material jetting vat polymerisation and powder bed fusion With the promise of more applications detailed understanding of AM from the processability of the feedstock to the relationship between the process structure properties of AM parts has become more critical More research work is needed in material development to widen the choice of materials for polymer additive manufacturing Modelling and simulations of the process will allow the prediction of microstructures and mechanical properties of the fabricated parts while complementing the understanding of the physical phenomena that occurs during the AM processes In this book state of the art reviews and current research are collated which focus on the process structure properties relationships in polymer additive

manufacturing **Lean Six Sigma Orange Belt - English version** ir. H.C. Theisens,2021-10-14 This book is intended for those who want to get started with carrying out improvement projects on the shop floor or in their own work environment In addition this book is intended for anyone who participates as a team member in a larger Lean or Six Sigma Green or Black Belt project The structure of this book is based on the Continuous Improvement Maturity Model CIMM The CIMM framework connects various improvement methods such as Agile Kaizen Lean and Six Sigma and lists the most commonly applied techniques in the field of continuous improvement and quality management The framework also connects the so called hard and soft elements of the transformation process that organizations have to deal with if they want to implement continuous improvement more firmly The CIMM framework is discussed in section In terms of structure this book follows the LSSA syllabus for Lean Six Sigma Orange Belt All techniques mentioned in this syllabus are covered in this book It is advised to also use the accompanying exercise book Those wishing to obtain their certification are advised to read the information in Appendix A Those who wish to apply Lean or Six Sigma at a Yellow Green or Black Belt level are advised to read one of the other books in the series Climbing the Mountain and use the corresponding exercise book **Lean Six Sigma Yellow Belt - English version** ir. H.C. Theisens,2021-10-14 This book is intended for those who want to get started with carrying out improvement projects on the shop floor or in their own work environment In addition this book is intended for anyone who participates as a team member in a larger Lean or Six Sigma Green or Black Belt project In terms of structure this book follows the LSSA syllabus for Lean Six Sigma Yellow Belt All techniques mentioned in this syllabus are covered in this book It is advised to also use the accompanying exercise book

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