

# 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)

# Aiag Manual For Spc

**Tobias Bleicker**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

**Aiag Manual For Spc:**

## Decoding **Aiag Manual For Spc**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Aiag Manual For Spc**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### Table of Contents **Aiag Manual For Spc**

1. Understanding the eBook **Aiag Manual For Spc**
  - The Rise of Digital Reading **Aiag Manual For Spc**
  - Advantages of eBooks Over Traditional Books
2. Identifying **Aiag Manual For Spc**
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an **Aiag Manual For Spc**
  - User-Friendly Interface
4. Exploring eBook Recommendations from **Aiag Manual For Spc**
  - Personalized Recommendations
  - **Aiag Manual For Spc** User Reviews and Ratings
  - **Aiag Manual For Spc** and Bestseller Lists

5. Accessing Aiag Manual For Spc Free and Paid eBooks
  - Aiag Manual For Spc Public Domain eBooks
  - Aiag Manual For Spc eBook Subscription Services
  - Aiag Manual For Spc Budget-Friendly Options
6. Navigating Aiag Manual For Spc eBook Formats
  - ePub, PDF, MOBI, and More
  - Aiag Manual For Spc Compatibility with Devices
  - Aiag Manual For Spc Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aiag Manual For Spc
  - Highlighting and Note-Taking Aiag Manual For Spc
  - Interactive Elements Aiag Manual For Spc
8. Staying Engaged with Aiag Manual For Spc
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aiag Manual For Spc
9. Balancing eBooks and Physical Books Aiag Manual For Spc
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aiag Manual For Spc
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Aiag Manual For Spc
  - Setting Reading Goals Aiag Manual For Spc
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aiag Manual For Spc
  - Fact-Checking eBook Content of Aiag Manual For Spc
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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