

Advanced SPC

6 insights

 Sri
Padhmam
Employability Solutions

**Based on the discussions with
MRF members at Tarapore towers, Chennai**

Advanced SPC

6 insights

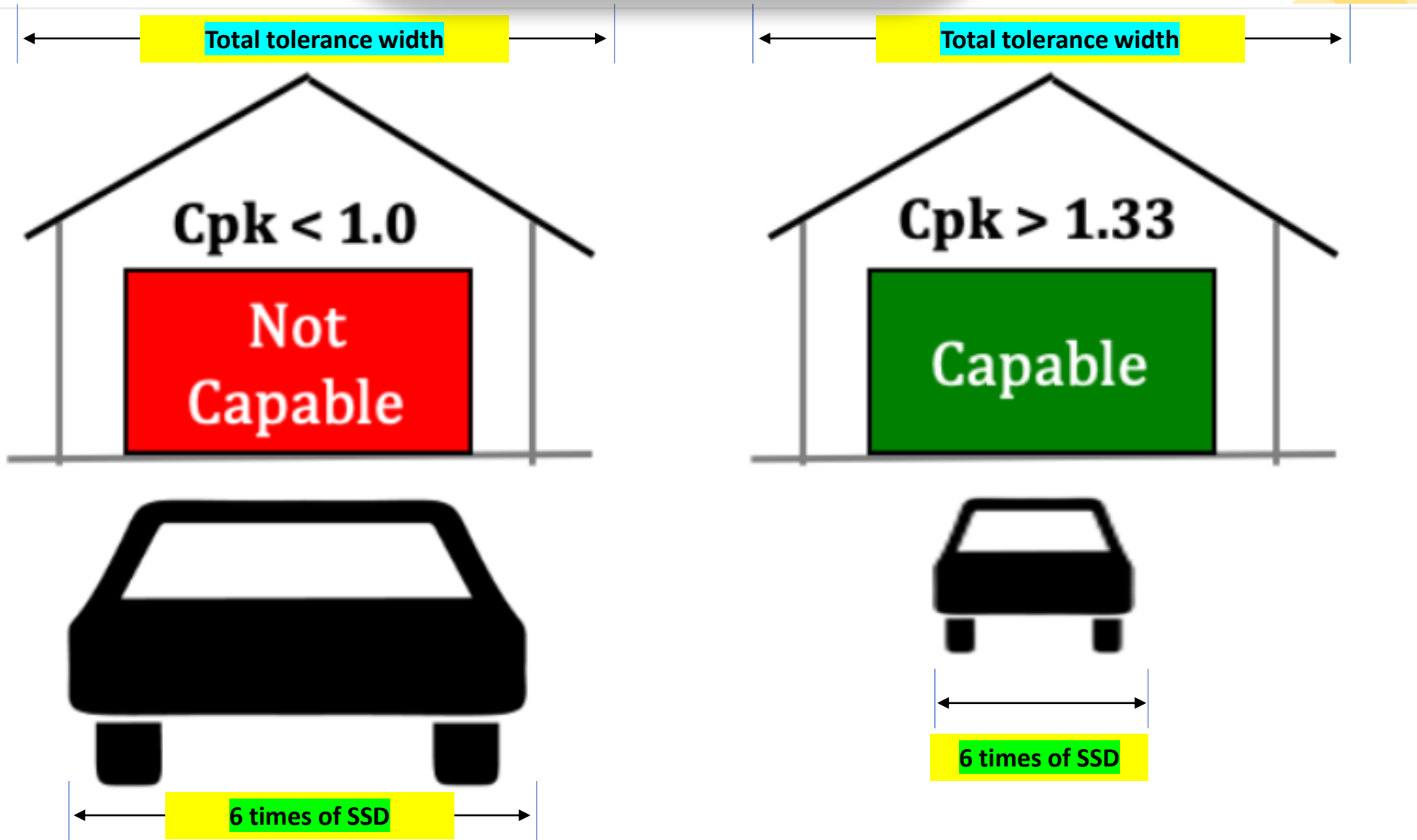


Advanced SPC

6 insights

#	Statement	True	False
1	For Histogram analysis, we need at least 100 data points		
2	For Capability analysis on Non-normal data, we need to first decide the type of Distribution, it fits in closely		
3	For most of the Capability analysis, we use 6 times of SSD (Refer next sheet)		
4	Power test is to decide the right sample sizes, in a statistical way		
5	Ensuring the Capability of the process to be done, even before ensuring the Normality of the data points		
6	Stop light control charts shall be deployed even on Attribute data		

Advanced SPC





Type of Program	:	Technical	Management	Behavioural		
Target Audience	:	Operators	Supervisors	Officers	Engineers	Managers
Mixed Group	:	Yes	No			

	Min	Max
Hours	16	18
No of Participants	15	20

Program Objectives

To familiarize the participants to apply the concepts on higher level SPC techniques such as stability check, Z scale methodology, Selection of sample size, Attribute Capability analysis, Capability analysis on One sided tolerance.

This will help for understanding the SPC concepts much better and help in systematic process improvements.

Performance Indicators :

Short Term:

- Performance during the team presentations
- Qualification Test Marks
- Exercise marks during the Program
- Program feed-back

Long Term:

- Implementing the concepts
- Better focus on Customer requirements
- Reduction of COPQ
- Enhanced skill index

Process

Methodology:

- ▶▶ Classroom discussions
- ▶▶ Team Exercises (25 + exercises)
- ▶▶ Group Presentations

Structure:

- ▶▶ Ice Breaking
- ▶▶ Accelerated, Recap & Concept building exercises
- ▶▶ Evaluation during the sessions
- ▶▶ Situation analysis
- ▶▶ Word puzzle
- ▶▶ Qualification Test & Evaluation
- ▶▶ Verbal Feed Back
- ▶▶ Written Feed Back

Deliverables

- Statistical symbols and the application
- Fundamentals of SPC (Quick tour)
- Normality or stability factor
- Z scale methodology
- Power test for Sample size selection
- Capability studies on Non-normal data
- Capability studies on Attribute data
- Stop light Control charts
- Short run SPC : DNOM charts
- Stability vs Capability
- Patterns of instability
- SPC vs MSA : Which is first ?

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Disclaimer :

- ❑ The very purpose of this document is to enhance the KNOWLEDGE but not to enhance the COMPETENCE.
- ❑ Competence shall be improved only by Implementing the knowledge gathered from our various initiatives.



Best wishes !

Knowledge test

Do you want to self-evaluate your knowledge on Capability studies ?

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- Choose your course--
- Analytical tools for improvements
- Automotive QMS IATF 16949:2016
- Control Plan Methodology as per IATF 16949 : 2016
- QMS ISO 9001 : 2015
- Capability studies**
- Failure Mode and Effects Analysis
- Process Failure Mode & Effects Analysis (AIAG - VDA)
- Measurement Systems Analysis
- Design Of Experiments

--Choose your stage--

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