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Connecting Business with Intelligence

APPLICATION OF STATISCAL PROCESS CONTROL (SPC)

INTRODUCTION

Data are everywhere but how can we make sense out of them. Do they tell us something about the process? Are we still in control or has the process becomes unpredictable?

SPC is a method and procedure that can help us to monitor and control our process behavior. Is our process still in control and stable? Or do we have enough evidence to indicate that our process is starting to deviate from its last behaviour? Should we intervene or maintain the process as it is?

Without SPC, we would be making any of those decisions based on assumption or experience which can be deceiving. SPC enabled us to make decision based on facts using statistical calculative decision. By having your process continuously in control statistically, you are ensuring continuous product conformance with little waste as possible and improving the capability and breakthrough of your process.

COURSE OUTLINE

- Introduction to accuracy and precision (variation)
- Measuring accuracy and variation
- Measures of accuracy and variation
- Normal curve
- Stability
- What are control charts
- Identifying variables to be charted
- Develop your own SPC charts
- Interpreting and analyzing control charts
- Check for time dependence in your data
- Using variable control chart
- Short run @ small lot SPC chart
- Using attribute control chart
- SPC relationship to process capabiity

OBJECTIVE

- Understand the purpose of SPC
- Define the concept of variation and how it can be describing statistically
- How to use statistics in process control?
- Be able to set up and use SPC charts
- Be able to interpret the charts in relation to process/product requirement
- Identify the different types of charts to be used in SPC

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