

# Statistical Process Control Workshop

*In this 16-hour\*\* workshop, you will learn Statistical Process Control techniques that can help your processes become stable and predictable. At the conclusion of this workshop, you will be able to select the appropriate (variable or attribute) control chart to monitor your process. You will also learn how to conduct process capability analysis. The Catapult is used as a process where participants go through the development of control charts. Also a statistical software is used for analysis*



## Who Should Attend?

Quality professionals (engineers / technicians / managers), manufacturing engineers/associates, process engineers, project engineers, lab personnel, and others who might be interested in understanding statistical process control.

## Outline

- > Quality Improvement & the Deming Philosophy
- > Processes (Flowcharts, Ishikawa Diagram)
- > Tools of Quality
- > Frequency Histograms and Checksheets
- > Quality Problem Solving Tools
- > Types of Data & Data Collection
- > Probability Theory and its relevance
- > Variation (Common vs. Special Causes)
- > Specifications
- > Statistical Concepts
  - Normal Distribution
  - Random Sampling,
  - Mean,
  - Standard Deviation and Range
- > Variable Control Charts (X-bar/R, IMR)
- > Attribute Control Charts(p, Np, c, u)
- > Monitoring Control Charts
- > Out-of-Control Conditions
- > Process Capability (Cp, Cpk)

\*\* A short version of this workshop (8 hrs) emphasizing variable statistical process control is also available\*\*

Contact us for a quote to bring this workshop on-site



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