

## **Introduction to Minitab & Process Capability:**

### **Using Minitab to Interpret Data and Simplify a Process Capability Study to Improve Processes**

**October 8, 2009; 8:00am – 4:30pm;  
Sigmas Conference & Event Center – 1717 Babcock Blvd., Pittsburgh 15209  
412-821-2530**

This workshop will introduce participants to a powerful and user-friendly statistical software package (Minitab) with a focus on teaching the mechanics and interpretation of a process capability study. Conducting process capability studies is an effective way to measure the process and gain the knowledge necessary for making continuous improvements. Process improvement leads to quantifiable business results for all types of organizations.

#### **Description:**

Gathering the right kind of data and knowing how to interpret the data are key components for making sustainable process improvements. Minitab will be introduced as an effective means for summarizing data in simple and graphical ways while the process capability study will be demonstrated as a tool to marry the "voice of the customer" with the "voice of the process" – two voices which are often not in sync. Process understanding through appropriate data collection and analysis leads to process improvement, a necessity for remaining competitive.

This hands-on Minitab overview and process capability tool introduction workshop is presented to the participants in a clear and effective manner complemented by an array of relevant examples.

#### **Areas Covered in the Seminar:**

- Minitab (statistical software package) introduction
- Data collection and graphical tools for continuous data using Minitab
  - Time Series Plot, Dotplot, Individual Value Plot and more...
- Effective use and interpretation of a Pareto Chart for attribute data using Minitab
- Summary statistics simplified using Minitab
- Definition and requirements for a process capability study
- Interpreting process capability study results
- Examples of applications and interpretation of a process capability study

#### **Who Will Benefit:**

This workshop will be valuable for any member of any industry desiring process improvements. A few specific roles that might benefit include:

- Process managers, engineers, sales, human resources, IT, customer support, manufacturing, continuous improvement leaders
- Individuals in the "quality" department
- Operators or floor personnel responsible for collecting data and/or process improvements
- Any associates trying to measure and make process improvements

