



CLEMENTS
PERFORMANCE SOLUTIONS LLC

WHERE IS STATISTICAL PROCESS CONTROL?

During World War II there was extensive use of Statistical Process Control (SPC). After that, its use waned, but again peaked in the 1970's and 1980's with the advent of "Total Quality" and other efforts.

However, today the comprehensive use of SPC is still absent even in many companies with major investments in Lean-Six Sigma and other improvement processes.



This is unfortunate, as SPC should be the foundation to understand and improve any process – and produce results.

Clements Performance Solutions LLC can help you revitalize your improvement efforts and help you achieve results in many areas by integrating SPC into your Lean-Six Sigma or other improvement efforts.

WHAT OTHERS HAVE SAID:

- *"Excellent course."*
- *"I compliment both of you for your teaching skills. You both held the attention of all. I feel much better being able to use SPC."*
- *"I appreciated that the examples used our data and our products"*
- *"Course material is very compelling!"*

BENEFITS OF CLEMENTS PERFORMANCE SOLUTIONS LLC SPC TRAINING

- 1) **Cost effective:** Clements Performance Solutions LLC is a small but experienced company that can tailor the training to your situation.
- 2) **Practical course:** The course focuses on applying SPC to get results.
 - Provides the principles without intense theory.
 - Emphasizes working through several examples using participant data.
 - Includes applicable techniques not a theoretical "laundry list" of tools.
 - Designed for a wide range of participants from the shop floor to all levels of leadership.
 - Highly qualified and effective instructors:
- 3) **Highly Qualified and Effective Instructors:**
 - Ralph Clements has extensive leadership experience in a variety of industries and has led an award-winning implementation of SPC.
 - Fred Shelton has substantial training in statistics and he has taught and implemented SPC in many situations and companies.
- 4) **Results-Oriented:** SPC can deliver measurable benefits – Clements Performance Solutions LLC is focused on results.



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WHY CONSIDER SPC TO REVITALIZE YOUR IMPROVEMENT EFFORTS? INSTRUCTORS

- ◆ *Is the performance of your processes improving and delivering results?*
- ◆ *Are shop floor people actively involved with improving their processes using SPC?*
- ◆ *Does your organization speak and think in data-oriented, statistical terms?*
- ◆ *Are there on-going debates about whether to take action, or what action to take?*



SPC should be the foundation of Lean-Six Sigma, or any improvement process because it provides the fundamental knowledge of the process. The success of SPC rests on several factors: effective training, integration into the overall continuous improvement process, and SPC must have positive, active leadership involvement.

Training and implementation of Lean-Six Sigma does not assure that SPC is properly understood; SPC is many times lost in a collage of tools.

On-line and other training may not have provided the proper foundation for several reasons:

Training is most effective when it uses data with which the participant is familiar;

SPC is best learned by doing multiple examples and direct interaction with instructors;

The instructor ability to present and interact is crucial.

COURSE OBJECTIVES

- Think in Statistical Terms
- Understand SPC Language
- Learn Why SPC Works in a Practical Way
- Learn How SPC Works
- Use Your Data to Practice
- Set Up Charts, Plot Data, Interpret Data ... and Act

Ralph Clements

Ralph Clements has served as Vice President of Manufacturing and Engineering for over 15 years and has been involved with transformational leadership throughout his career. He has worked with locations around the world including Brazil, Canada, Germany, Hungary, Mexico and Russia.

Ralph has extensive training in Lean Manufacturing, has successfully implemented continuous improvement processes like Six Sigma including SPC, Total Productive Maintenance (TPM) programs and others.

Ralph graduated from Iowa State University a Bachelor of Science Degree in Chemical Engineering and a Master of Business Administration Degree from Tulane University.

Fred Shelton

Fred Shelton is a results-oriented training professional with 34 years' experience in industry. He has a proven track record of designing, training, and implementing successful SPC processes, including winning the Monsanto Presidents Award for the best implementation of SPC.

Fred's expertise was recognized at the 86th Annual Meeting of the Air & Waste Management Association in Denver, Colorado. His well-attended sessions showed how SPC was used at minimal cost to eliminate the need for a million dollar project to treat the waste.

Fred's has Bachelor of Science degree in Mathematics from Athens State College, and graduate studies in Probability and Statistics from the University of Alabama-Huntsville.



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