



# *Basic Statistics & Analytics*

*A Two Day Public Course Instructed by*

***Charles A. Liedtke, Ph.D.***

***Strategic Improvement Systems, LLC***

*Strategy / Quality / Analytics / Improvement / Innovation*

[www.strategicimprovementsystems.com](http://www.strategicimprovementsystems.com)

*May 16-17, 2019*

## **Course Details**

**Description:** Data collection and analysis (*analytics*) is becoming a necessary core competency for an organization to consistently improve rapidly and effectively. *Continuous Improvement* professionals are now being expected to help develop performance scorecards and dashboards; provide analytical support during the strategic planning process; identify KPI correlations; and provide statistical support during improvement and innovation projects. Participants in this course will *enhance their analytical skills* and *add to their analytics toolbox* through **practical hands-on exercises** and **drills**. They will learn about the advancements in big data analytics and analyze a variety of **illustrative datasets** related to both service and manufacturing organizations. The successful completion of this course will develop in participants a **base-level mastery** of several *CI-related analytical* techniques that are useful for determining baseline levels of performance; assessing the state of statistical control; setting useful targets; stratifying data to identify strategies; confirming cause-and-effect relationships; and conducting before/after statistical analyses.

**Location:** Crowne Plaza—Minneapolis West, 3131 Campus Drive, Plymouth, MN 55441

**Price:** \$800

**Dates:** May 16-17, 2019

**Times:** 7:15 a.m. to 8:00 a.m.

Check-In & Breakfast

8:00 a.m. to 4:00 p.m.

*Basic Statistics & Analytics* Course

**Software:** Minitab Version 18 (not included, a free 30 day trial is available at [minitab.com](http://minitab.com))

**Topics:** *Intro to Analytics & Big Data; Determining Baseline Levels of Performance; Assessing the State of Statistical Control; Setting Useful Targets; Stratifying Data to Identify Strategies; Confirming Cause-and-Effect Relationships; Regression Analysis; Chi-Squared Test; Conducting Before/After Statistical Analyses*

**If you have any questions . . .** email Charles at [charles@sisliedtke.com](mailto:charles@sisliedtke.com).



**Strategic Improvement Systems**



### **Course Instructor**

**Charles A. Liedtke, Ph.D.** is the President of Strategic Improvement Systems, LLC, a management consulting company designed to assist leaders in improving the performance of their organization from a strategic perspective. Charles conducts **research, consults**, and provides **customized training** on *Strategy, Quality, Analytics, Improvement, and Innovation*. He has worked with organizations worldwide on strategic improvement initiatives including Fortune 500 companies, privately-held companies, non-profit organizations, and government entities. His most recent research projects were on *Quality, Analytics, and Big Data; Big Data in Hoshin Kanri*; and *Information-Based Customer Value Creation*.

Charles earned a **Ph.D. in Business – Operations and Information Management** from the University of Wisconsin-Madison specializing in strategy; strategic improvement; and quantitative analysis. His Ph.D. dissertation is titled, "Horizontal Interaction During Strategic Improvement Initiatives: A Study Involving Six Quality-Oriented Organizations." Charles has conducted research on Six Sigma, Lean, Process Management, Knowledge Management, Visioning, Hoshin Kanri, Long-Term Planning, Preserving Quality Superiority, Product and Service Design, Discovery, Process Improvement, Analytics, and Big Data. Charles also earned an M.B.A. and a Ph.D. minor in Statistics from UW-Madison; an M.S. degree in Statistics from Iowa State University; and a B.S. degree in Economics from South Dakota State University.

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## *May 16-17, 2019*

### **Registration & Payment Information**

#### **To register . . .**

Send an email message with the registration information below to [charles@sisliedtke.com](mailto:charles@sisliedtke.com)

- Name
- Organization
- Title / Position
- Email Address
- Payment Preference

**Price: \$800**

***Payment in full*** must be received by **May 9, 2019**. There are three ways that you can pay for the course:

1) Mail a check to Charles at the address below with the registration information (above).

Charles A. Liedtke, Ph.D.  
Strategic Improvement Systems, LLC  
6231 Hummingbird Road  
Excelsior, MN 55331

2) Submit a purchase order with the registration information and you will be sent an invoice.

3) Submit the registration information and indicate that you would like to pay by credit card. Charles will send you an invoice through PayPal.

A person's registration is transferable to another person at any time until the course begins. There will be an 80% refund (\$640) for a cancellation until May 9, 2019. There are no cancellation refunds after May 9, 2019.

Price of **\$800** per participant includes:

- 13.0 hours of training
- Spiral bound workbook
- Breakfast, lunch buffet, and refreshments during the course
- *Basic Statistics & Analytics* certificate

### **Questions**

You can phone Charles at 952-380-0778 or email him at [charles@sisliedtke.com](mailto:charles@sisliedtke.com).

**Privacy Notice:** Registration information will only be used for internal administrative purposes by Strategic Improvement Systems, LLC and will not be shared with any third party.