

# *Statistics & Analytics Foundation*

*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)

*November 6-7, 2018*

## **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 analyze a variety of **illustrative datasets** related to service and manufacturing organizations and sports. The successful completion of this course will develop in participants a basic understanding of analytics and big data and 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:** \$825

**Date:** November 6-7, 2018

**Times:** 7:30 a.m. to 8:00 a.m.      Check-In & Buffet Breakfast  
8:00 a.m. to 3:45 p.m.      *Statistics & Analytics Course*

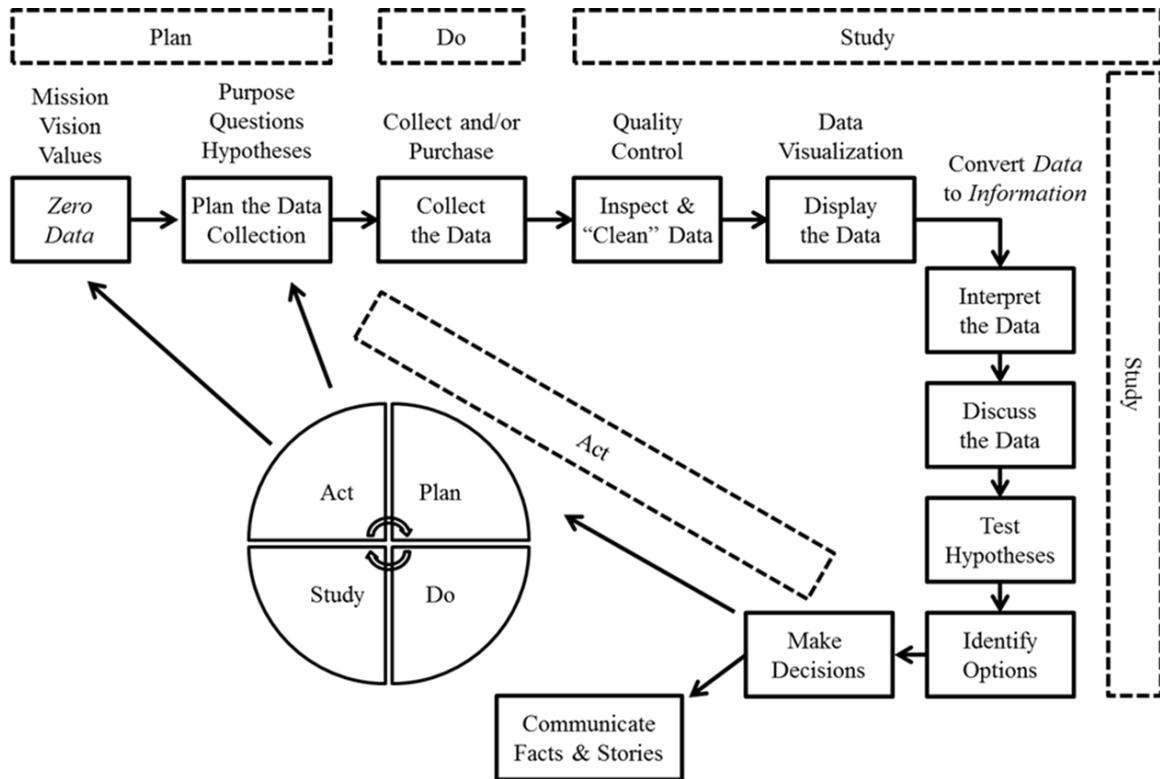
**Software:** Minitab Version 18 (not included, a free 30 day trial is available at [minitab.com](http://minitab.com))

**Topics:** *Statistics Foundation*  
*Introduction 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*  
*Conducting Before/After Statistical Analyses*

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

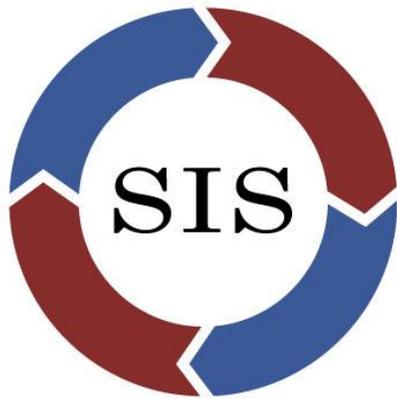
# Statistics & Analytics Foundation

## Analytics Process



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Participants will learn the *Analytics Process* during the course and start to master some of the key steps of the process. You can learn more about the *Analytics Process* by reading the research report on *Quality, Analytics, and Big Data* which is available for free on the RESEARCH page at [www.strategicimprovementsystems.com](http://www.strategicimprovementsystems.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* and *Big Data in Hoshin Kanri*.

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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## **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

### **To pay . . .**

***Payment in full*** must be received by **October 31, 2018**. 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 (\$660) for a cancellation until October 31, 2018. There are no cancellation refunds after October 31, 2018.

Price of **\$825** per participant includes:

- 12 hours of training
- Spiral bound workbook
- Breakfast, lunch buffet, and refreshments during the course

## **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.