

# *Basic Data Analysis Course*

One In-Person Training Day on June 28, 2023

*Charles A. Liedtke, Ph.D.*

*Strategic Improvement Systems, LLC*

*Strategy / Quality / Analytics / Improvement / Innovation*

[www.strategicimprovementsystems.com/public-seminars/](http://www.strategicimprovementsystems.com/public-seminars/)

## **Course Description**

Leaders of organizations today are searching for employees with knowledge, skills, and abilities in *data analysis* which is one of the key success factors in improving organizational performance from a strategic perspective. Effective *data analysis* can improve decision making and the planning and implementation of organizational actions. Course participants will be (1) introduced to basic *data analysis* concepts, tools, and techniques and then (2) apply what they learn. This fast-paced, action-packed *Basic Data Analysis* experience will give participants some of the valuable skills necessary to analyze data in their day-to-day work and contribute to the analysis of data elsewhere in the organization. In essence, it will take participants from “0 to 60” on *data analysis* in one day.

**Venue:** **In-Person Training Day on June 28, 2023** (Twin Cities Venue - TBD)

**Class Times:** 8:00 a.m. to 3:00 p.m. CST on June 28, 2023.

**Length:** 6.5 Total Training Hours.

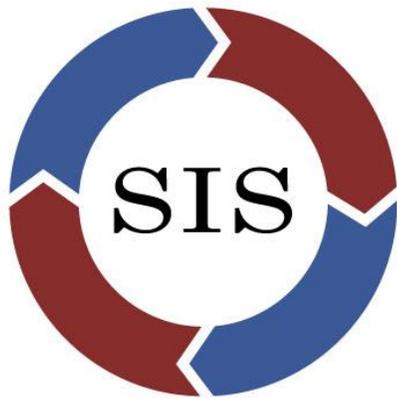
**Software:** Excel and Minitab will be featured, but they are not necessary to attend.

**Price: \$550** **Payment-in-Full** in the Amount of **\$550** is Due by **June 21, 2023**.

**Early Bird Discount = \$500** if Payment-In-Full is Received by **May 15, 2023**.

## **Topics (Partial Listing):**

- Organizational Performance Categories
- Organizational Performance Metrics
- Performance Scorecards & Dashboards
- Sampling Techniques
- Types of Data
- Data Structures
- Exploratory Data Analysis
- Distribution Shapes
- Measuring Center
- Measure Variation
- Time Series Analysis
- Statistical Control Charts
- Scatterplot Analysis
- Simple Linear Regression Analysis
- Before/After Analysis



**Strategic Improvement Systems**



### **Course Instructor**

**Charles A. Liedtke, Ph.D.** is the Founder and Owner 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, Culture, 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, hospitals, clinics, and government entities. His most recent research reports were on *Quality, Analytics, & Big Data; Big Data in Hoshin Kanri; Information-Based Customer Value Creation; Advances in Strategic Planning; Shaping Organizational Culture; Visions & Visioning; and Advances in Horizontal Interaction*. Charles served as an editor for the Japanese Society for Quality Control on the English version technical standards on *Guidelines for Daily Management* and *Guidelines for Policy Management*. Those two works made the *best practice* technical standards from Japan accessible to all English speakers.

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. Charles also earned a Ph.D. Minor in Statistics and an MBA from the University of Wisconsin-Madison; an M.S. Degree in Statistics from Iowa State University; and a B.S. Degree in Economics from South Dakota State University.

# *Basic Data Analysis Course*

June 28, 2023 – Twin Cities Venue (TBD)

## **Registration & Payment Information**

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

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

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

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

**Price: \$550**    **Payment-in-Full** in the Amount of **\$550** is Due by **June 21, 2023**.  
**Early Bird Discount = \$500** if Payment-In-Full is Received by **May 15, 2023**.

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.

You will then be sent an invoice through PayPal.

A person's registration is transferable to another person until June 27, 2023. There will be an 80% refund of \$440 (\$400 for Early Bird Discount) for a cancellation until June 21, 2023. There are no cancellation refunds after June 21, 2023.

Price of **\$550** (or **\$500 for Early Bird Discount**) per participant includes:

- 6.5 hours of training (in-person) + 15-minute final presentation (Zoom)
- Learning material (hard copy booklet)
- Food and beverages during the in-person training day
- *Basic Data Analysis* certificate

## **Questions**

You can email Charles at [charles@sisliedtke.com](mailto:charles@sisliedtke.com) with questions.

**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.