



*The International Association of Directors of  
Law Enforcement Standards and Training,  
with support from the  
Texas Department of Transportation*



# Data Analysis Using Microsoft Excel® Intermediate

## **Creating Analytical Capacity- Virtual Training Series**

### **Course Description:**

IADLEST, in cooperation with TxDOT, is offering a **FREE** virtual 4-part training series (**14 credit hours**) that focuses on the principles relating to managing and analyzing data using Microsoft Excel®. The course is designed for analysts to learn the key data and analytical skills needed to establish effective and efficient data-driven processes. Topics include threshold analysis and critical thinking, application with complex formulas, and 3D mapping in Excel. This series explores the benefits of data-driven strategies and answering complex questions in Microsoft Excel®.

Note: It is recommended that students take Data Analysis Using Microsoft Excel® Basic prior to enrolling in this intermediate course.

### **Skill Development:**

1. Demonstrate creating threshold analysis and performing critical thinking relative to said analyses.
2. Demonstrate creating complex formulas in Excel, such as if statements, time conversions, and prediction formulas.
3. Demonstrate creating complex analyses in Excel, such as time analyses and crime series predictions.
4. Demonstrate creating 3D maps in Excel, including prepping data, creating a pin map, adding layers, creating a heat map, creating an evolving video, sharing analyses, and understanding benefits and limitations.

### **Workshop Structure:**

- Weekly Self-Study Assignments
  - **Session 1: Thursday, March 14, 2024**
- Live Training Sessions
  - Session 2: Thursday, March 21, 2024      1:00 pm – 3:00 pm (cst)
  - Session 3: Thursday, March 29, 2024      1:00 pm – 3:00 pm (cst)
  - Session 4: Thursday, April 4, 2024      1:00 pm – 3:00 pm (cst)
- **NOTE:** Virtual one-on-one tutorial sessions and assistance will be provided throughout the training.

### **Instructors:**

Debra J. Piehl, IADLEST- DDACTS Analytical Director and DDACTS Subject Matter Expert  
Christopher W. Bruce: Assistant Professor, Husson University and Analytical Subject Matter Expert

### **Registration and Contact Information:**

To register for this training contact Daniel Howard, TxDOT- Project Manager at [danhoward@iadlest.org](mailto:danhoward@iadlest.org) or for more information go to [Analytical Training/Resources](#).