INTERMEDIATE ANALYTICS FOR GOVERNMENT OFFICIALS

A 2-Day Theoretical or 3-Day Hands-on TMS Experience

This workshop builds on your existing understanding of government analytics by providing additional depth in numerous areas, including broader knowledge of commercially available analytical tools; increased fluency in Data Science terms; and an overview of algorithm science and machine learning. Lessons and case studies will be linked to analysis tools available in Microsoft ™ Excel (The 3-day workshop applies the lessons in hands-on exercises in Excel.)

Course Objectives:

- **What Does Industry Use?**
    - Databases compared: SAS, Tableau, & Oracle
    - Unstructured data and Python
    - Machine learning and algorithms
- **What is Data Science?**
    - Evolution of the profession
    - Ten common mistakes in using data
    - How to use, and do you need, a Data Scientist?
- **Intermediate Data Handling and Statistical Techniques**
    - Developing Pivot Tables
    - Using Pivot Charts to summarize data
    - Explaining charts comparing two vertical scales
    - Using exotic chart types for visually compelling data
    - Creating and testing a hypothesis
    - Common and uncommon statistical errors
    - Chi-Squared testing for randomized data

Audience: This workshop is designed to provide powerful tools for data analytics for government employees.

Toolkits:
Receive a **Student Handbook** and **Online Toolkit**, containing tools such as checklist, tips, techniques, and numerous other tools to help you use your new skills immediately.

Additional Information
CPE Credits: 13.0-20.0
CEU Credits: 1.1-1.7
Required Program Prerequisites: Introduction to Analytics for Government Officials, or recent graduate-level statistics or proficiency in the Excel Analysis Tool Pack Descriptive Statistics.
Advanced Preparation: None
NASBA Program Level: Intermediate
NASBA Field of Study: Specialized Knowledge
Delivery Method: Group Live – Classroom

The TMS Philosophy and Approach

1 Quality Training

Interactive training that focuses on the **latest trends** in the government workforce utilizing instructional techniques based upon **innovative** adult learning practices delivered by certified, experienced, world-recognized and award-winning instructors.

2 Dynamic Instruction

You will find an **engaging environment** where attendees will build upon their professional habits, techniques, and skill sets through a series of **practical, participant-focused exercises** led by an energetic instructor who has over two decades of government and subject-related experience.

3 Personalized Learning

We tailor the classroom objectives to the participant's **personal goals, professional goals,** and the organization's mission.

Student Feedback from FY19:

"I have 23 years federal service. This was the best instruction/instructor I've ever had the pleasure of meeting!"

"This was the BEST class I've attended in my 30 years of government."

"In 35 years of attending training with the government, this is the best format by far."

"Instructor was engaging and dynamic. Easily the best training I've attended in the last 8 or more years."

4 Ongoing Support

Attendees receive an online **toolkit** with checklists, guidelines, & many more resources to enable participants to take their new skills and tools they learned in-class & apply them in their workplace.

INTERACTIVE CLASSROOMS

5 OPM ECQ-Focused

Each TMS course is developed based on OPM's **Executive Core Qualifications**; this means each TMS course is designed to not only address the core competencies in a government culture, but we provide the skills needed and **results-driven**

Classroom time is spent on group discussion, case study review, & small group exercises; NOT POWERPOINT PRESENTATION.

objectives to immediately influence performance, and professional development.