

Evidence Based Analysis for Federal Employees

Course Number: 4612

Length: 2 Days

Primary Delivery Method: Instructor-led online (synchronous)

Alternative Delivery Methods: Instructor-led live classroom

Course Description

Strengthen federal analysis by testing assumptions, evaluating evidence, and applying structured reasoning to real work. Participants learn practical methods to identify data bias, avoid logical fallacies, select meaningful measures, and align evidence with organizational goals. Apply these techniques to produce more defensible analysis, strengthen recommendations, and support accountable, results-driven decision-making.

Intended Audience

Federal employees responsible for analysis, program oversight, evaluation, planning, or policy development who need to test assumptions, use evidence effectively, and improve decision quality.

Course Learning Objectives

- Identify whether decisions are logically based on evidence
- Identify aspects of critical thinking in evidence-based hypothesis building: challenging biases, asking questions, promoting meaningful metrics, and ensuring quality data
- Describe strategies to use existing data to form hypotheses
- Develop hypotheses using probabilistic reasoning
- Understand the purposes of documentation and processes that enable achieving the benefits of evidence-based hypothesis building
- Evaluate the alignment of hypotheses with organizational goals using evidence of progress toward those goals

Course Additional Features

- Producer Support
- Technical Support Team
- Extended Learning Bursts
- Dedicated In-House Accessibility/Section 508 Compliance
- Student Resource Guides
- AI Prompts

All details about the Additional Features are available on this page. [Click here to Explore](#)

Course Schedule

DAY ONE

Evidence Based Analysis for Federal Employees

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|-----------|--|
| MORNING | Lesson 1: History of the Science of Evidence |
| | Lesson 2: Mitigating the Challenges of Choosing Evidence |
| LUNCH | |
| AFTERNOON | Lesson 3: Addressing the Challenges of Hypothesis Building |
| | Lesson 4: Hypothesis Building |

| DAY ONE | |
|-----------|---|
| MORNING | Lesson 4 Hypothesis Building (continued) |
| | Lesson 5: Hypothesis Evaluation Processes and Tools |
| LUNCH | |
| AFTERNOON | Lesson 6: Hypothesis and Measurement Modification |

Learning Methods

Individual, small-group, and large-group exercises; lecture, discussion, action planning

Credits

National Association of State Boards of Accountancy (NASBA)

- Field of Study: Business Management & Organization
- Level: Intermediate
- CPEs: 16

Professional Development Units (PDUs)

- Credits: 14

Continuous Learning Points (CLPs)

- Credits: 16

Management Concepts Certificate Program Relationship

Evidence Based Analysis for Federal Employees

This is an elective course in the following program(s):

- [Data Analytics Certificate Program](#)
- [Project Management Master Track](#)

Prerequisites

Mandatory

- Basic Excel skills

Suggested

- [Introduction to Analytics](#)
- [Data Ethics Framework](#)

Pework

There is no prework required for this course.

Requirements for Successful Completion

Full (100%) attendance is expected and required. Successful completion of the course depends on full class attendance and active participation in individual and group exercises.

Follow-On Resources

- [Introduction to Analytics](#)
- [Federal Data Ethics Framework](#)
- [Data-Driven Decision Making](#)
- [Introduction to Data Visualization](#)
- [Data Storytelling for the Federal Government: Numbers to Narratives](#)
- [Evaluating and Presenting Analysis Results](#)
- [Leveraging Artificial Intelligence for Federal Decision-Making](#)
- [Championing Data: Building a Data-Savvy Federal Workforce](#)

Evidence Based Analysis for Federal Employees

Ready to Enroll?



See the most recent course information and scheduled classes at this link:
<https://www.managementconcepts.com/course/id/4612>



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