

# Frequently Asked Questions

**Course Title:** Data Analysis and Modeling Techniques

**Course #:** 4615

**Duration:** 4 Days

**Delivery Method:** Instructor-led live classroom

**Alternative Delivery Methods:** Instructor-led online (synchronous)

## 1. What business or organizational need does this course address?

Analyze data to help solve your organization's most complex challenges and requirements. Learn the core techniques used to analyze and model complex data into understandable information. Gather the skills to interpret data using Microsoft Excel with lessons enhanced with application-based demonstrations and exercises that will provide you with the skills needed to apply these concepts back on the job.

## 2. Who should attend?

This course is designed for professionals who need to interpret data to aid in organizational decision-making and problem-solving.

## 3. What will I learn how to do in this course?

- Describe data analysis, data modeling, and the analytics process model
- Review and modify data to prepare for data analysis
- Identify general statistical techniques for data analysis
- Determine how to summarize data to present information using descriptive statistics
- Use a correlation chart to determine the strength of a correlation
- Explain relationships in data and apply regression and other forecasting techniques to forecast probable events
- Demonstrate how to use simulation techniques to solve complex problems
- Identify how to track and control Processes with Statistical Process Control (SPC)
- Conduct a sensitivity analysis to solve complex problems
- Evaluate how well an analysis meets organizational goals

## 4. What kinds of activities are included in this course?

Lecture; facilitator presentations; facilitated discussions; practical individual and large-group hands-on exercises; discussion; action planning.

## 5. Are there prerequisites for this course?

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Mandatory:

- Participants should have a basic understanding of Excel

Suggested:

- [Introduction to Analytics](#)
- [Analytics Boot Camp](#)
- [Introduction to Statistics](#)
- [Data Collection Techniques](#)

## 6. Do I have to complete any prework for the course?

There is no prework required for this course.

## 7. Is this course applicable toward a professional certification?

No, this course is not applicable toward a professional certification. However, many Management Concepts courses do prepare you for professional certification programs. Click [here](#) to see a full list of professional certification programs that are supported by Management Concepts training courses.

## 8. Does this course count for credit toward a Management Concepts Certificate Program?

This is a core course in the following program(s):

- [Data Analytics Certificate Program](#)

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

- [Business Analysis and Requirements Management Master Track](#)
- [Enterprise Risk Management](#)
- [Internal Control](#)
- [Project Management Master Track](#)
- [Program Management Certificate Program](#)

## 9. What credits do I earn by completing this course?

The following credits are available for this course:

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NASBA CPEs: 32

NASBA Field of Study: Statistics

NASBA Level: Advanced

CEUs: 2.5

PDU: 28

CLPs: 32

## 10. What course(s) do you recommend after I complete this course?

- [Data Storytelling for the Federal Government: Numbers to Narratives](#)
- [Introduction to Evidence-Based Hypothesis Building](#)
- [Leveraging Artificial Intelligence for Federal Decision-Making](#)
- [Federal Analytics Simulation: A Data Quest](#)

## 11. What are Additional Features?

Most courses and training solutions have **Additional Features** designed to help every learner master and retain the concepts explored in the course. You can see which Additional Features are added to this course on the course page under the **Learning Objectives & Additional Features** tab – and for a more detailed exploration of our Additional Features, you can visit [this web page](#).