

# Introduction to Statistics

**Course Number:** 4680

**Length:** 4 Days

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

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

## Course Description

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Learn how to apply core statistical concepts to data: describe it, make inferences, and draw conclusions that can have great organizational impact from expert instructors through hands-on exercises. Develop the skills to graphically display data, apply statistical tests to determine validity, reliability, and significance, and identify relationships between variables. You will also learn how to conduct statistical analyses in Excel to help you analyze data more quickly and effectively for your organization.

## Intended Audience

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This course is designed for professionals who seek formal training or a refresher course in statistical analysis using Microsoft Excel. This course covers statistical concepts that are also addressed in *Analytics Boot Camp* and *Data Analysis and Modeling Techniques*.

## Client-Provided Facility Requirements

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- 1 computer per student with Internet and Microsoft Office 2010
- Internet required for instructor computer

## Course Learning Objectives

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- Apply the Analytics Process Model to plan and conduct statistical analyses
- Describe data using measures of central tendency and variation
- Construct a frequency distribution to analyze data
- Calculate the likelihood that an event will occur using probability distribution functions
- Use sampling to make inferences about a population
- Use t-tests to test hypotheses and determine statistical significance
- Calculate correlation between variables and make predictions using linear regression

## Course Additional Features

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- Producer Support
- Technical Support Team
- Dedicated In-House Accessibility/Section 508 Compliance
- Student Resource Guides

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

# Introduction to Statistics

## Course Schedule

DAY ONE	
MORNING	Lesson 1: Introduction to Analytical Research and Statistics
	Lesson 2: Measures of Central Tendency
LUNCH	
AFTERNOON	Lesson 3: The Frequency Distribution
	Lesson 4: Measure of Variation

DAY TWO	
MORNING	Lesson 5: Basic Probability
LUNCH	
AFTERNOON	Lesson 6: Binomial Distribution

DAY THREE	
MORNING	Lesson 7: Normal Distribution
LUNCH	
AFTERNOON	Lesson 8: Sampling and Inferential Statistics

DAY FOUR	
MORNING	Lesson 9: Hypothesis Testing: T-Test
LUNCH	
AFTERNOON	Lesson 10: Correlation and Regression
	Course Evaluation

# Introduction to Statistics

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## Learning Methods

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

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## Credits

### National Association of State Boards of Accountancy (NASBA)

- Field of Study: Statistics
- Level: Intermediate
- CPEs: 32

### Professional Development Units (PDUs)

- Credits: 28

### Continuous Learning Points (CLPs)

- Credits: 32

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## Management Concepts Certificate Program Relationship

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

- [Data Analytics Certificate Program](#)
- [Business Analysis and Requirements Management Master Track](#)
- [Project Management Master Track](#)

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## Prerequisites

### Suggested

- [Introduction to Analytics](#)

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## Pework

There is no prework required for this course.

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## 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.

# Introduction to Statistics

## Follow-On Resources

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- [Introduction to Analytics](#)
- [Data Analysis and Modeling Techniques](#)
- [Data Collection Techniques](#)
- [Data Storytelling for the Federal Government: Numbers to Narratives](#)

# Introduction to Statistics

## Ready to Enroll?



See the most recent course information and scheduled classes at this link:  
<https://www.managementconcepts.com/course/id/4680>



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