Introduction to Statistical Analysis Using IBM SPSS (V20)

Duración: 2 Días      Código del Curso: 0G510G

Temario:
Introduction to Statistical Analysis Using IBM SPSS Statistics is a two day instructor-led classroom course that provides an application-oriented introduction to the statistical component of IBM® SPSS® Statistics. You will review several statistical techniques and discuss situations in which you would use each technique, the assumptions made by each method, how to set up the analysis, as well as how to interpret the results. This includes a broad range of techniques for exploring and summarizing data, as well as investigating and testing underlying relationships. You will gain an understanding of when and why to use these various techniques as well as how to apply them with confidence, and interpret their output, and graphically display the results.

Dirigido a:
This basic course is for: anyone who has worked with IBM SPSS Statistics and wants to become better versed in the basic statistical capabilities of IBM SPSS Statistics Base anyone with limited or no statistical background anyone who wants to refresh their knowledge and statistical experience that were gained many years ago

Objetivos:
- Please refer to course overview.

Prerequisitos:
You should have:
- General computer literacy
- Completion of the "Introduction to IBM SPSS Statistics" and/or "Data Management and Manipulation with IBM SPSS Statistics" courses or experience with IBM SPSS Statistics (Version 15 or later) including familiarity with opening, defining, and saving data files and manipulating and saving output
Contenido:

- Explica los pasos básicos del proceso de investigación
- Descripción de los niveles de medida usados en IBM SPSS Statistics
- Use los opciones en el procedimiento Frequencies
- Use los opciones en los procedimientos Crosstabs, Descriptives, y Explore
- Explica la influencia del tamaño de la muestra
- Use los opciones en el procedimiento Independent-Samples T Test
- Use los opciones en el procedimiento Paired-Samples T Test
- Use los opciones en el procedimiento One-Way ANOVA
- Visualiza la relación entre dos variables a través de diagramas, utilizando el procedimiento Chart Builder
- Explica la regresión lineal y sus suposiciones
- Describe cuando se deben utilizar pruebas no paramétricas

- Explica las diferencias entre las poblaciones y las muestras
- Explica las diferencias entre los experimentos y no experimentales
- Explica las diferencias entre las variables independientes y dependientes
- Entiende las distribuciones de datos - Teoría
- Use medidas de tendencia central y dispersión
- Use distribuciones normales y z
- Use las opciones en el procedimiento Crosstabs
- Entiende los resultados del procedimiento Frequencies
- Use los procedimientos Data Distributions for Categorical Variables
- Use el procedimiento Interpret the results of the Frequencies
- Use los procedimientos Data Distributions for Scale Variables
- Use el procedimiento Interpret the results of the Frequencies
- Use los procedimientos Making Inferences about Populations from Samples
- Explica la naturaleza de la probabilidad
- Explica la hipótesis de prueba
- Explica diferentes tipos de errores estadísticos
- Explica las diferencias entre estadísticas y prácticas
- Relaciones entre variables categóricas
- Requiere estadísticas apropiadas para una crosstabulación
- Entiende los resultados de un análisis ANOVA de una vía
- Use el procedimiento Chart Builder para crear un gráfico de error bar
- Use los procedimientos Bivariate Plots and Correlations for Scale Variables
- Explica el coeficiente de correlación de Pearson
- Explica las opciones de los procedimientos Bivariate Correlations

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Use the Independent-Samples T Test to test the difference in means
Know how to interpret the results of a Independent-Samples T Test
Use the Chart Builder to create an error bar graph to display mean differences
The Paired-Samples T Test
Interpret the results of a Paired-Samples T Test
One-Way ANOVA
Check the assumptions for One-Way ANOVA
Interpret the results of a One-Way ANOVA analysis
Use the Chart Builder to create an error bar to graph mean differences
Bivariate Plots and Correlations for Scale Variables
Explain the Pearson correlation coefficient and its assumptions
Interpret a Pearson correlation coefficient
Explain the options of the Bivariate Correlations procedure
Regression Analysis
Explain the options of the Linear Regression procedure
Interpret the results of the Linear Regression procedure
Use Automatic Linear Models to perform regression
Nonparametric Tests
Describe the options in the Nonparametric Tests procedure dialog box and tabs
Interpret the results of several types of nonparametric tests

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- Explain differences between populations and samples
- Explain differences between experimental and non-experimental research designs
- Explain differences between independent and dependent variables
- Understanding Data Distributions - Theory
- Use measures of central tendency and dispersion
- Use normal distributions and z-scores
- Data Distributions for Categorical Variables
- Interpret the results of the Frequencies procedure
- Data Distributions for Scale Variables
- Interpret the results of the Frequencies, Descriptives, and Explore procedures
- Making Inferences about Populations from Samples
- Explain the nature of probability
- Explain hypothesis testing
- Explain different types of statistical errors and power
- Explain differences between statistical and practical importance
- Relationships Between Categorical Variables
- Request appropriate statistics for a crosstabulation
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- Explain the basic steps of the research
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- Interpret the results of several types of
Use the Chart Builder to create an error bar ANOVA analysis.

Independent-Samples T Test

Know how to interpret the results of a ANOVA.

The difference in means.

Use the Independent-Samples T Test to test.

The Independent-Samples T Test features.

Use additional syntax-only Crosstabs crosstabulation.

Use the Chi-Square test, interpret its results, and check its assumptions.

Explain differences between populations and samples.

Explain differences between experimental and non-experimental research designs.

Explain differences between independent and dependent variables.

Understanding Data Distributions - Theory.

Use measures of central tendency and dispersion.

Use normal distributions and z-scores.

Data Distributions for Categorical Variables

Interpret the results of the Frequencies procedure.

Data Distributions for Scale Variables

Interpret the results of the Frequencies, Descriptives, and Explore procedures.

Making Inferences about Populations from Samples

Explain the nature of probability.

Explain hypothesis testing.

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Know how to interpret the results of a Independent-Samples T Test.

Use the Chart Builder to create an error bar graph to display mean differences.

The Paired-Samples T Test.

Interpret the result of a Paired-Samples T Test.

One-Way ANOVA.

Check the assumptions for One-Way ANOVA.

Interpret the results of a One-Way ANOVA analysis.

nonparametric tests

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Use the Chart Builder to visualize a crosstabulation.

Use additional syntax-only Crosstabs features.
Use the Chart Builder to visualize the difference in means and check its assumptions.

Use the Independent-Samples T Test to test the difference in means.

Know how to interpret the results of a Independent-Samples T Test.

Use the Chart Builder to create an error bar graph to display mean differences.

The Paired-Samples T Test.

Interpret the results of a Paired-Samples T Test.

Check the assumptions for One-Way ANOVA.

One-Way ANOVA.

Interpret the results of a One-Way ANOVA analysis.

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- Explain the options of the Bivariate Correlations procedure.
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- Use Automatic Linear Models to perform regression.
- Nonparametric Tests.
- Describe the options in the Nonparametric Tests procedure dialog box and tabs.
- Interpret the results of several types of nonparametric tests.
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- Interpret the results of the Frequencies, Descriptives, and Explore procedures
■ Visualize the relationship between two scale variables with scatterplots, using the Chart Builder procedure.
■ Explain linear regression and its assumptions.
■ Describe when non-parametric tests should and can be used.

■ Explain differences between populations and samples.
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