

The SPSS Essentials concentrates on the most common topics that we see researchers using on a daily basis. When you are finished with this class you will be able to create a data file and entering data, conduct preliminary Analyses, use graphs to describe and explore the data, Manipulate the data, Check the reliability of a scale, apply correlations, significance tests, and regression analysis. This class is perfect to those conducting quantitative research, analyzing big data and to those who wants to use SPSS more effectively. We are proud to have one of the best SPSS trainers in the country.

I. Getting Started:

- 1) Getting to know SPSS
- 2) Starting SPSS

II. Working with data files

- 3) SPSS windows
- 4) Menus
- 5) Dialogue boxes
- 6) Closing SPSS
- 7) Getting help

III. Creating a data file and entering data

- 8) Defining the variables
- 9) Entering data
- 10) Modifying the data file
- 11) Data entry using Excel

IV. Preliminary Analyses:

- 12) Descriptive Statistics
- 13) Frequencies (categorical variables)
- 14) Central tendency, standard deviations, and range (continuous variables)

V. Correlations:

- 15) Pearson product-moment correlation
- 16) Interpretation of output from correlation

VI. Using graphs to describe and explore the data

- 17) Histograms
- 18) Bar graphs
- 19) Boxplots
- 20) Line graphs
- 21) Editing a chart/graph
- 22) Graphs using Excel

VII. Manipulating the data

- 23) Calculating total scale scores
- 24) Transforming variables
- 25) Collapsing a continuous variable into groups

VIII. Checking the reliability of a scale

- 26) Procedure for checking reliability
- 27) Interpreting the output from reliability

IX. Significance Tests:

- 28) T-tests
- 29) Independent t-tests
- 30) Interpreting the output from independent t-test
- 31) Paired t-tests
- 32) Interpreting the output from paired t-test
- 33) Chi-square test of independence
- 34) Interpreting the output from chi-square test

X. Continuing with significance tests:

- 35) Analysis of Variance
- 36) One-Way between-groups ANOVA
- 37) Post-hoc comparisons
- 38) Interpreting the output from one-way ANOVA
- 39) Two-Way between-groups ANOVA
- 40) Interpreting the output from two-way ANOVA
- 41) One-Way Repeated measures ANOVA
- 42) Interpreting the output from repeated measures ANOVA

XI. Regression

- 43) Multiple linear regression
- 44) Interpreting the output from multiple linear regression
- 45) Logistic regression
- 46) Interpreting the output from logistic regression