

Training Course Data Analysis with SPSS

Course Language **English**

Course Duration Total Number of hours: 15 hours

Course Objectives

- Acquaint the participants with the basic principles and knowledge of applied statistical concepts.
- Train the participants to use the SPSS software for analysis of real life data
- Equip the participants with the choice of statistical method that better suits their research design and objectives
- Equip participants to use the statistical analysis for problem solving and decision making

Course Content

Course Key Topic Area Includes:

- Introduction to Applied Statistics
- Introduction to SPSS Graphical User Interface
- Data Cleaning and Management in SPSS
- Descriptive Statistics
- Data Visualization
- Introduction to inferential statistics
- Parametric/Non-parametric tests
- Reliability analysis
- Correlation Analysis
- Multiple linear regression
- Logistic Regression

At the end of the program the trainees will be able to:

Learning Outcomes

Demonstrate a solid understanding of fundamental data analysis concepts
Develop proficiency in using SPSS software for data management, analysis, and visualization.
Be able to use SPSS for descriptive and inferential statistical procedures
Be able to interpreting and report the SPSS analysis results for problem solving and decision making

Target Audience

Graduate students
Research professionals
Business Analysts
Healthcare/Social Scientist
Those interested in professions related to data analysis

Course Material /Technology used/ Details Relevant to the course

Participants need to use the SPSS software
Presentation material will be provided

Instructor Details & Brief Instructor Bio

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Dr. Saddam Abbasi is currently working as an Associate Professor of Statistics in the Department of Mathematics, Statistics and Physics, College of Arts and Science, Qatar University. He also holds the position of Supervisor of the Statistical Consulting Unit at QU. He received Ph.D. degree in Statistics from The University of Auckland, New Zealand in 2013. Since then, he has served at prestigious institutions including 7 years of experience at Qatar University. He is deeply involved with research in the field of quality control, data science and industrial engineering. His research work resulted in more than 100 ISI ranked research articles with more than 2200 citations and an h-index of 27. He also acts as a reviewer for several international journals and conferences.