Research Category

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Client focused, Result driven

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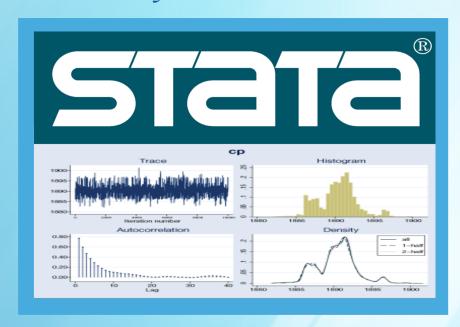Website: www.tobitresearchconsulting.com

STATA®

Client focused, result driven

STATA TRAINING

SPSS, STATA, EVIEWS, R, DATA ANALYSIS & RESEARCH TRAINING

STATA TRAINING

TRAINING COURSE OBJECTIVES

The goal of the course is to increase knowledge and requisite skills of participants on the use of STATA and to enable them make the most of this powerful software package while allowing them to work independently with STATA on their own data and provide a solid foundation for advanced data analysis work.

1. At the end of the course, participants should be able:

- To perform a wide range of data management tasks in STATA application.
- To apply STATA in analysis of data for academic projects and corporate reports.

2. The course objectives will be achieved through:

- Practical use of the STATA software using Cross sectional, Time series and Panel data sets.
- Take away assignment for practice.

CERTIFICATION

Upon completion of the course, the student will be awarded with a certificate.

COURSE REQUIREMENTS

- STATA Software will be installed at a cost of kes 2,000
- STATA software manual will be provided in soft or students will be encouraged to photocopy manuals which are in hard copy
- Interested organizations/institutions/individuals are expected to have laptop(s) while attending the Training.
- The Trainings happen any time of the day from 9am to 6pm during Week days and from 9am to 5pm on Saturdays. The time schedule depends on the Student Flexibility.

COURSE CONTENTS

MODULE ONE: INTRODUCTION TO BASICS STATA	Cost per Individual(ksh)	Duration
Basic STATA Features and Data Management • Basic STATA Commands • Data entry, Importing and Exporting values • Data coding and Labeling • Creating Do files and Log files. Descriptive Statistics • Frequency tables • Graphs • Charts Regression and Correlation • Formulation of Hypothesis • Beta Coefficients • Interpretation of R-Values • Interpretation of t-Statistics • R squared • F statistics Transformation of Data Generating new variables • Natural logs • Averages • Sum, products	5000	5 hours

MODULE TWO: INTERMEDIATE STATA	Cost per Individual(ksh)	Duration

Panel Data analysis
Diagnostic tests:
• Test for normality
  ◆ Graphical test (through Histograms)
  ◆ Skewness and Kurtosis test
  ◆ Sminory Kormogorov test and Shapiro Wilk test .
• Multicollinearity tests using
  ◆ Variance inflation factor (VIF)
  ◆ Correlation matrix
• Serial correlation/Autocorrelation test
• Heteroscedasticity tests
Hausman tests
• Random effects test
• Fixed effects test
• Hausman test
Panel Regression and Correlation
• Panel data setting
• Partial Correlation
• Fixed -effect regression
• Random- effect regression
• Interpretation of R squared (Within, Between and Overall) and Pseudo R-Squared.
	5000	5 hours

MODULE THREE: ADVANCED STATA	Cost per Individual (ksh)	Duration
Advanced Regression analysis • Pooled Regression Analysis • Regression Analysis with Random Effect • Regression Analysis with Fixed Effect • Feasible Least Squares Regressions Advanced Regression analysis • FGLS regression • Binary & Multinomial logistic regression • Probit regression model • Tobit regression model	5000	5 hours

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