



Hands on Training Worskhop in SPSS, STATA, R , Survey CTO, and Mendeley. The Statistical & Research Services Consortium is Conducting Hands-on Training in SPSS, STATA, R , Survey CTO, and Mendeley

Below is a Brief Content of the Trarining Courses:

SPSS I

- Introduction to SPSS
- Measurement scales (Scale, ordinal and nominal variables)
- Creating data entry template
- Defining and labeling variables
- Reading and importing Data From Other Sources (Microsoft excel files and delimited text files, STATA
- Inserting variables & cases
- Merging data files (add variable & cases)
- Computing variables
- Recoding variables
- Recode into different variable
- Recoding into the same variable
- Automatic recode
- Select cases
- Split cases

STATA I

Introduction to STATA software

- Windows, menu, and toolbars
- STATA files (do file and log file)
- STATA commands

Data manipulation and management

- Types of variables
- Variable label
- Recoding variables
- Generating new variables
- computing variables
- sorting variables
- codebook
- List
- Data in memory

Descriptive statistics

- Frequency
- Cross tabulating variables
- Summary statistics
- Mean

R I

- Introduction to R and RStudio
- Installing R & Rstudio
- Interacting with Rstudio interface / Workspace.
- Customizing the interface
- Install and load R packages
- learning about packages
- Creating new files and projects
- Importing data into R from other software e.g. Excel, SPSS, STATA, etc
- Frequencies of categorical variables
- Quartiles and means of quantitative variables
- Minimum, median, mean and maximum
- Summarizing variables
- Creating histogram, scatterplot & barchart

For details of the content and registration of the courses, please visit our website <https://srscgroup.com/> and offices located in the New Democrat Building, Clay Street, Monrovia

SPSS II

- Hypothesis testing
- One-sample t-test
- Independent sample t-test
- One way ANOVA

Chi-square

Goodness of fit chi-square

Chi-square for contingency tables

Correlation analysis

- Pearson's correlation
- Spearman's correlation

Non-parametric tests

- The mann-Whitney test
- Krustal wallis test

Regression

- Simple regression
- Multiple regression
- binary logistic regressin
- Interpreting the results

STATA II

Introduction to STATA software

- Hypothesis testing
- Comparing means
- One-sample and Two sample T-test
- ANOVA
- ANCOVA
- Proportion test
- Chi-square test

Regression models for binary outcomes

- Logistic regression
- Probit regression
- models for binary outcomes interpretation
- Interpretation using regression coefficients
- Interpretation using odds ratio
- Marginal effects

Regression models for ordinal outcomes

- Order logit
- Order probit
- Interpretation

R II

Basci Graphs

- Barchart, pie chart, histogram
- Adding texts, customized axes

Advance graphs

- Introduction to tidyverse
- Installing tidyverse
- loading tidyverse
- Examining a dataset
- Grouping and summarizing data
- filtering record to create subset
- Adding rows with mutate verb
- Piping

Introduction to ggplot2 package

- Installing and loading ggplot2
- Specifying plot type with geom
- Grouping
- Facet
- Modifying the appearance of ggplot2 graphs

Introduction to dplyr

Installing and loading dplyr

Loading and working with dplyr

Arrange

Summarize

Attaching and detaching dataset

Installing group of packages at once

Uninstalling packages

Linear regression

T-test

Survey CTO

- Introduction to survey cto mobile data collection systems

Survey Authoring/Digitization

Field types in surveyCTO

Survey authoring using surveyCTO online form builder

Survey authoring using spreadsheet software applications

Downloading form definition from surveyCTO

Editing the form definitions using spreadsheet software (eg. MS Excel)

Uploading xls forms to surveyCTO server console

Advanced Survey Authoring

- Geo data
- Grouping
- Repeating a group of questions
- Skip logic (relevance)
- Enforcing constraints
- Select_one and select_multiple
- Preloading data into your survey forms

Data Collection

- Data collection using android devices (phones and tablets)
- Installing and configuring surveyCTO Collect
- Getting blank forms from surveyCTO server
- Editing saved forms
- Filling and submitting finalized forms

Data Management and Monitoring

Managing users and user roles

Managing data

Monitoring incoming data

Case management in surveyCTO

Mendeley

- **Creating a mendeley account**
- Downloading Mendeley (for Windows)
- Installation of mendeley
- Mendeley interfaces
- Creating a library
- Importing via pdf
- Changing citation styles
- My mendeley web
- Installing word plugin
- Inserting in-text citations
- Adding and removing citations in citation field
- Manually editing citations
- Generating bibliography
- Removing duplicates
- Web library
- Web group
- Highlights, add notes and annotate
- Backing up mendeley folders
- Practices on changing citation styles into word document

Training Dates and Time

STATA (I): Jan11-15 &18, 2021..... 5:00 pm - 8:00 pm
SPSS (I): Jan 19-22 & 25&26 , 2021 5:00 pm - 8: 00 pm
SPSS (II):Jan 27-29 & Feb 1-3, 20215:00 pm - 8:00 pm
STATA (II): Feb 4-5 & Feb 9-12, 2021..... 5:00 pm-8:00 pm
Mendeley: Feb 15, 16, 17, 2021 5:00 pm-8:00 pm
Survey CTO: Feb 18-19 & 22-24 & 26 5:00 pm-8:00 pm
R (I): March 1-5 & 8, 2021..... 5:00 pm-8:00 pm
R (II): March 9-12 & 15 & 16 5:00 pm-8:00 pm

Saturdays classes

STATA (I): Jan 2, 9,16, & 23..... 9:00 Am - 1:00 Pm
SPSS (I): Jan 2, 9,16, & 23..... 1:00 Pm - 5:00 Pm
SPSS (II): Jan 30, Feb6,13, & 20..... 9:00 Am - 1:00 Pm
STATA (II): Jan 30, Feb 6,13, & 20..... 1:00 Pm - 5:00 Pm
R (I): Feb 27, March 6, 3, & 20..... 9:00 Am - 1:00 Pm
R (II): March 27, April 3, 10 & 17..... 9:00 Am - 1:00 Pm

Training Methodology

This is an interactive and practical based training. Participants are to come with a laptop.

The key delivery methods include:

- Discussion
- Practical Demonstrations
- Case Studies

Targeted audience

University Lecturers, Academic undergraduates (Senior students in Economics, Sociology, Mathematics, Demography, Nursing, agriculture), postgraduate students, public sector and social researchers, project planners and managers, monitoring and evaluation practitioners, middle-level managers in the public and private sectors, public health practitioners, Medical Doctors, epidemiologist, Economist, Sociologist, Demographer, mathematicians and Agriculturalist

Registration fee:

SPSS I & STATA I: 125.00 USD per course, including installation of the software

SPSS II & STATA II: 150.00 USD per course, including installation of the software

R I: 150.00 USD

R II: 200.00 USD

Survey CTO : 175.00 USD and Mendeley 75.00 USD

Training Venue: New Democrat Building, Clay Street, Monrovia

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Other Services offered :

Research

- Feasibility studies
- Need assesment
- Baseline, midterm and endline surveys
- Mapping of supply and demand for financial services
- Socioeconomic, agro-economic, and marketing research
- Inferential statistics
- Mathematical and economic models to understandthe complexity of real word problems

Surveys and Data Collection

- Survey design
- Training in developing research questions, methodology.
- Development and validation of data collection tools
- Collection of both qualitative and quantitative
- In-depth interviews (IDIS) e.g key informant interviews
- Focus group discussions
- Facilitation of training

Impact Evaluations

- Monitoring, Evaluation and impact assesments for projects and programs
- Baseline assesments / studies
- feasibility studies for agricultural and health projects
- Financial and economic analysis projects
- Value chain and farm budget analysis and development
- Agricultural and economic policy, and strategy development analysis

For details on these services, visit our website <https://srsccgroup.com/> and offices located in the New Democrat Building, Clay Street, Monrovia