SPSS in Multivariate Analysis and Custom Syntaxes Training Course

Professional Development Training Course Outline

Category	Research and Data Analysis	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Researching sensitive topics—such as gender-based violence, mental health, human rights violations, and marginalized populations—requires a rigorous, ethical, and analytical approach. SPSS in Multivariate Analysis, and Custom Syntaxes Training Course equips researchers, analysts, and social scientists with the advanced data analysis tools and ethical research strategies needed to investigate sensitive subjects while preserving the dignity, safety, and confidentiality of participants.

The course offers hands-on, practical training in quantitative data analysis, SPSS automation, and complex modeling techniques. With a focus on real-world case studies, the program ensures participants master custom syntaxes for automation, advanced factor analysis, MANOVA, discriminant analysis, and logistic regression—empowering them to handle vulnerable populations' data accurately, ethically, and efficiently.

Programme Curriculum

SPSS in Multivariate Analysis, and Custom Syntaxes Training Course

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Course Objectives

1. Understand the ethical protocols in researching sensitive topics.
2. Apply SPSS custom syntaxes for automated and repeatable analyses.
3. Perform multivariate statistical analysis with real-world datasets.
4. Use MANOVA to analyze group differences across multiple variables.
5. Conduct factor analysis for psychometric or attitudinal scales.
6. Implement discriminant function analysis for classification tasks.
7. Build and interpret binary and multinomial logistic regression models.
8. Create custom SPSS macros to enhance research productivity.
9. Explore missing data imputation strategies for sensitive data.
10. Assess model fit and assumptions in multivariate techniques.
11. Analyze longitudinal data for time-sensitive sensitive studies.
12. Interpret results within culturally appropriate frameworks.
13. Develop data reporting templates using syntax-driven automation.

Target Audience

1. Academic Researchers
2. NGO Monitoring & Evaluation Officers
3. Graduate Students in Social Sciences
4. Data Analysts and Statisticians
5. Public Health Researchers
6. Human Rights Investigators
7. Policy Analysts
8. Research Ethics Committee Members

Course Duration: 5 days

Course Modules

Module 1: Foundations of Researching Sensitive Topics

- Defining sensitive topics in research
- Ethical and legal considerations
- Informed consent and data confidentiality
- Risk mitigation strategies
- Working with vulnerable populations
- **Case Study**: Researching Gender-Based Violence in Rural Communities

Module 2: SPSS Essentials and Data Preparation

- Data entry and validation for sensitive variables
- Labeling, coding, and managing data securely
- Handling missing values and outliers
- Dataset merging and restructuring
- Importing sensitive datasets from surveys and mobile tools
- **Case Study**: Survey Analysis on LGBTQ+ Mental Health

Module 3: Custom Syntaxes in SPSS

- Introduction to SPSS syntax language
- Creating reusable syntax templates

- Automating repetitive tasks
- Writing conditional commands for sensitive subgroups
- Using syntax for reproducibility and transparency
- **Case Study**: Automating Report Generation on Human Rights Violations

Module 4: Multivariate Analysis Using SPSS

- Overview of multivariate statistical techniques
- Data suitability and assumption testing
- Choosing the right model for sensitive data
- Interpreting multivariate output
- Controlling for confounding variables
- **Case Study**: Multivariate Analysis of Domestic Violence Factors

Module 5: Factor and Reliability Analysis

- Exploratory Factor Analysis (EFA) basics
- Rotations, communalities, and loading interpretations
- Reliability testing (Cronbach's Alpha)
- Developing scales for sensitive constructs
- Validating psychometric instruments
- **Case Study**: Measuring Trauma Resilience in Refugee Populations

Module 6: Logistic and Multinomial Regression

- Binary logistic regression principles
- Multinomial regression modeling
- Variable selection techniques
- Model fit and diagnostics
- Interpreting odds ratios and coefficients
- **Case Study**: Predicting Help-Seeking Behavior Among Abuse Survivors

Module 7: MANOVA and Discriminant Analysis

- Understanding MANOVA design
- Interpreting multivariate test results
- Discriminant function coefficients and group classification
- Visualizing group separation
- Reporting multivariate outcomes
- **Case Study**: Educational Outcomes in War-Affected Children

Module 8: Customizing SPSS Output and Reporting

- Automating output formatting
- Exporting syntax-driven tables and figures
- Creating publication-ready reports
- Custom macros for standardized reporting
- Data storytelling with sensitivity
- **Case Study**: Reporting Results from a Mental Health Hotline Study

Training Methodology

- Instructor-led live sessions with SPSS demonstrations
- Hands-on guided SPSS labs and exercises
- Use of anonymized sensitive datasets for practice
- Case-based discussions for ethical decision-making

- Peer group collaboration for syntax building
- Feedback sessions with real-time troubleshooting

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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