> Online Training on SPSS for Government Organizations.

DATA ANALYTICS FOR GOVERNMENT

But HOW?

Turn Insights Into Action

With the welfare of the public as the ultimate goal and the uncertainty that is inherent in all social and economics related decisions, statistical sciences can play an important role in solving problems of citizens 'well being and prosperity. Objective policy making requires government administrators to carefully consider whether a particular set of socio economic procedures works by analyzing data collected across multiple stages of policy implementation.

Governmental statistics comprises of analysis and interpretation of data in order to locate association and test hypothesis, while taking into account the variability inherent in socio economic process. It provides an objective and formal framework for communicating findings and evidences to officers across multiple government agencies, for them to understand the current socio economic status of the public.

Do More With Less

SPSS Licenses are expensive, and as much as possible they should be put to use for analytical work: for project reports, data analysis and research. Yet, to first pick up the analysis skills, it becomes inevitable to spend more time on the software learning it, than is spent actually getting productive work out of it. This makes it very difficult for administrators to allocate adequate training budget and facilities to a large body of government officers. The simulated environment of the SPSS Online Training course, along with statistical concepts as well as guidelines on interpreting results, makes officers adept at using SPSS. So that when they access SPSS they use it for producing results, not trying to learn it. This of course helps the organization manage a bigger work load with an optimal number of licenses.

Free Up Resources With Asynchronous Learning

In a government organization time and space are two of the most valuable resources that need to be put to the best productive use. This includes utilizing them for delivery of necessary analysis, research and reports, rather than for learning. SPSS, when it needs to learnt as an added skill or as a part of the repertoire of tools that a government officer must acquire, is best delivered in an asynchronous mode over the web, so that it does not consume the vital resources of time and space, leaving them available for focus areas of learning.

Standardise The Training Delivery

Teaching a subject like data analysis with SPSS to government officers, to whom it needs to be taught as a added skill for improving productivity rather than as a core responsibility, sometimes faces a challenge when it comes to managing the need for adequate coverage while avoiding too much of technicality. And it is often left to the individual trainer to strike the right balance between these two necessities. The problem becomes further compounded as new officers continuously rotate through the department and when given their responsibility, they are geographic dispersed as well. The SPSS online training ensures that all officers undergo the same training wherever they are and whenever they join the department.

WHAT'S
in the training ?

In Line With Government officers' Needs

This training is meant for government officers. Administrators who will need to learn on how to apply statistics and SPSS to socio economic problems, rather than attempt to become statisticians or data scientists. The training therefore, is delivered with socio economic case studies, to give the learners a grasp of the practical usage of these techniques.

Statistical Concepts

Trying to analyze data in SPSS without understanding the statistical concepts that underlie the techniques is not advisable. For it can often lead the researcher to either apply an incorrect technique or draw the wrong conclusions. Each section in the training therefore first explains a statistical concept before exposing the learner to the running of the analysis itself.
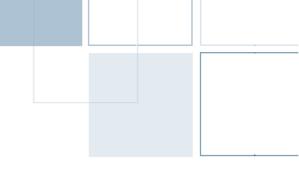
Simulated User Interface

A primary objective of the training is to give the learner a hands-on feel of the environment that she would encounter while working on SPSS itself. The training does provide a simulated environment, guiding the learner step by step through the analysis process, and preparing the officers to become completely familiar with the workings of the actual software itself.

Interpretation Of Results

Running an analysis on the data is just the beginning. Ultimately the administrator has to draw conclusions from the results SPSS produces. The training explains the SPSS output, with a variety of examples, guiding the learner through the findings the results show up. The examples are created using public domain socio economic data, so that the learners can repeat it themselves.

What's in the Content?

Data
- Data Measurement
- Data Type
- Data Documentation
- Visual Binning
- Data Selection

Descriptive Statistics
- Frequencies
- Measures of Central Tendency
- Measures of Position
- Measures of Dispersion
- Measures of Distribution

Graphical representation of Data
- Univariate Graphs
- Bivariate Graphs
- Multivariate Graphs
- Comparing Categories in the Same Variable
- Multiple Variable Comparisons

Tabular Representation of Data
- Comparing Categories
- Comparing Multiple Variables

Data Reports
- Olap Cubes
- Case Summaries

Comparing Populations
- One Sample T Test
- Independent-Samples T Test
- Paired-Samples T Test
- Cross Tabulation
- ANOVA

Relationship between variables
- Correlation
- Regression

Forecasting
- Time series Analysis & Forecasting

Data Quality
- Missing Value Treatment
- Outliers Treatment