"Great class, e-guide and handouts! My supervisor told me that you are a wonderful presenter and speaker... I definitely agree!', WUSS 2012 Student

Automating Tasks using
SAS® Macro and Metadata Programming

COURSE DESCRIPTION

Ready to get the most out of SAS macros with a simple and logical approach to SAS macro and metadata programming? This unique course shows how the macro language serves as a dynamic character editor for SAS programs. Course examples show how macros can be used to standardize, automate, communicate, customize and create SAS code. From simple to complex real-word examples, we will break down the macro language into easily digestible chunks. Using macros saves time with metadata or data-driven processing and dynamic code generation. Attend with your challenging macro questions. References are made to my top 25 'must read' SAS papers. Each student receives the companion SAS e-guide, a $24.95 value, which is a great reference tool for searching, cutting and pasting concise model SAS examples.

COURSE OUTLINE – Anatomy of SAS Macros e-Guide (Searchable PDF file)

BASIC MACROS

 1. Basics of SAS Macros
 2. Creating Macro Variables to store and replace text
   2.1 Scope of Macro Variables
   2.2 Using the %LET statement
   2.3 Using Macro Functions
   2.4 Using the Data Step
   2.5 Using PROC SQL
   2.6 With a suffix indicator
   2.7 Confirming Macro Variable Value

ADVANCED MACROS

 3. Referencing Macro Variables to substitute text
   3.1 In SAS Statements
   3.2 As Two or More Ampersands (&&)
   3.3 Within Macro Functions
   3.4 To Create SAS Code or SAS Statements
 4. Writing Macros to automate tasks
   4.1 Using Positional Parameters
   4.2 Using Keyword Parameters
   4.3 Macros That Call Macros
   4.4 Summary Table Collection of Macros
 5. Accessing Macros from Macro Library
 6. Metadata Programming for Intelligent Processing
  6.1 Applications: Format Catalog, Variable Attributes, TLG Titles and Footnotes, DEFINE.PDF, File Management Utilities such as cutoff macro, TOC, Missing Values Adjustment, Code Generator

Course Length: 8-Hours Course, On-Line or On-Site