Getting Started with Surpac Macros

An Introduction to Tcl/Scl

Course Outline

Unit Concepts	Activities
Logicals, command aliases and hotkeys	Purpose and definition of Surpac logical
	Definition of command aliases to run commands and macros
	How to create hotkeys that run commands and macros
Creating your own menus and toolbars	Brief introduction to Surpac profiles
	Creating menu bars and menu items
	Defining toolbars and buttons
Recording tasks in a TCL script	Basic macro structure
	The different types of Surpac functions
	Using the _action switch
Some required TCL basics to get working	TCL command syntax
	Creating and accessing TCL variables
	Quotes, braces and square brackets
	Introduction to GUIDO forms
Creating user forms for your scripts	Using fields and combo boxes for data collection
	Using checkboxes and radio buttons
	Using file browser fields to select files
	Passing form data in variables back to Surpac functions
Automating a recorded script	An exercise to automate a string maths operation
	Applies current course knowledge
	Using the SclSelectPoint command
A better way to select points in graphics	Passing coordinate data into graphics functions
	Using the SclSelectPoint command
Useful TCL commands	Working with numbers and performing calculations
	Working with text strings (i.e. dfields)
	Working with files on disk
Basic flow control in TCL	Making decisions in scripts using the if command
	Repeating many commands using the while loop
	Repeating many commands using the for loop

vComp Pty Ltd

(ABN 39 103 040 311)
PO Box 7356
Cloisters Square
Perth WA 6850
info@vcomp.com.au

Manipulating Surpac ranges with SCL	Using the SCL range commands
	Implementation of a basic range processing template
Macro development	An application development exercise that will apply all course knowledge to achieve a set goal. A choice of two tasks is provided. Mine grid conversation script or Geology database sectional plots
File I/O – reading and writing text files	Commands to read and write text files
	Macro to create a CSV file
	Macro to read a message log