

Class Name: *Intermediate UNIX Shell*
Level: Intermediate
Duration: 5.0 days
Audience: System Programmers and sophisticated end users experienced in using the UNIX System

Description: An in-depth look at the most powerful commands used in the UNIX shell. Topics include using the *Korn* Shell for increased productivity while interacting with the UNIX system, managing, analyzing, and comparing the contents of files, creating and manipulating the content of variables, and a thorough introduction to advanced commands such as **sed** and **awk**. Over 40 shell commands are covered.

Outline:	<u>Module Description</u>	<u>Time in Hours</u>
	• Introduction	1.25
	• The Korn Shell Tutorial 2.75	
	- What is a Shell?	
	- Introduction to set Options	
	- The ksh .profile	
	• Functions & Aliases	2.50
	- The .sfunctions File	
	- Creating and Using Aliases	
	• Advanced Variables	9.00
	- Types of Variables	
	- Special Variable Expansion & Modification	
	- Unnamed & Named Variable Arrays	
	- Simulation Files in RAM	
	- System Parameters	
	• Accelerating Programming Efficiencies	1.00
	• Advanced Pattern Matching & Regular Expression	6.25
	- Strategies for Making Matches	
	- Character Sets	
	- Anchors & Repeaters	
	• Shell Construct Quick Reference Guide	1.00
	• File Manipulation Utilities	3.50
	- File Determination and Comparison Utilities	
	- Horizontal Extraction & Compiling	
	• Introduction to sed	3.25
	- Benefits of sed /How sed Works	
	- sed Usage, Applications, and Syntax	
	• Introduction to awk	4.00
	- Applications of awk --Basic Principles and Usage	
	- awk Syntax and Application Usage	
	• UNIX Command Summary Guide	4.75
	alias, banner, cat, chgrp, chmod, chown, cmp, continue, cpio, crontab, crypt, cut, date, dd, df, du, exit, export, fc, file, find, grep, head, let, ln, mesg, newgrp, pack, set, shift, split, strings, su, tail, tee, time, typeset, unalias, unset, wc, what, whence	
	Approximate Total Time	40.00 hrs