

**UNIX Course Content:35-40hours**

**Course Outline**

**Introduction to UNIX**

- Design Philosophy
- System Components
- The Shell and Command Entry
- Documentation

**Text Editing**

- Types of Editors From ed to ex to vi
- Basic Editor Tasks with vi
- Editing Multiple Files Named Buffers vi Startup File

**The File System**

- File System Organization
- File Types
- File and Directory Naming Rules and Conventions
- Commands for Navigating the File System
- Introduction to Inodes Ownership, Permissions, and Dates Manipulating Files and Links  
Manipulating Directories  
Determining Disk Usage Other File System Utilities

**Printing**

- Printing Under AT&T UNIX Printing Under BSD UNIX
- Text File Manipulation
- Regular Expressions
- grep and egrep
- The Stream Editor sed
- sort
- awk
- Other Text File Utilities

**Other File Processing Commands**

- Examining and Comparing Files
- Compression Utilities Data Format Interchange Encryption
- Networking Commands
- Remote Access Control Mechanisms Using the Secure Shell(ssh) Remote Execution  
Commands ftp, tftp telnet
- Basic User Commands
- Logging In and Logging Out Command Line Editing Navigating the File System Viewing and  
Copying Files Controlling the  
Terminal Sending and Receiving Mail

**UNIX Processes**

- The UNIX Process Model Process States
- Monitoring and Controlling Processes

### **Introduction to Shells: sh, csh, and ksh**

- Shell Functions
- I/O Redirection and Pipes
- Command Separation and Grouping
- Background Execution
- Filename Expansion
- Shell Variables
- Command Substitution
- Quoting and Escaping Metacharacters
- C Shell Features
- Korn Shell Features
- Command Execution
- Startup Files
- Customizing the User Environment

### **Multitasking and Batch Processing**

- Multitasking
- Scheduled Execution Using cron The at and batch Commands
- Shell Programming
- Shell Script Features and Capabilities
- How to Create and Run a Script
- Interpreting Command Line Arguments
- Conditional Constructs
- Looping Constructs
- Built-in Expression Operators
- Making Scripts Interactive

### **Backing Up Files**

- Backup Media UNIX Device Names tar and cpio
- File Transport and Conversion with dd

### **Desktop Environments**

- KDE
- Gnome
- Open Office
- Write
- Calc
- Impress
- Math
- Draw
- Base

### **Introduction to YaST**