# UNIX SHELL SCRIPTING

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| **TECHVISION**  **IT TRAINING AND PLACEMENT SERVICES**  **Website:Techvisionit.com** |

**Course Duration:** 30 hours

**Sessions:** Weekdays; Weekends; Crash Course

# Course Outline: UNIX SHELL Scripting Training

**Course Contents**

**Introduction**

* Basics of computer applications
* Unix Course Introductions
* Pre-requisites
* Course Summary

**UNIX Commands**:

**Processing & Listing**

* Processes and Directories
* Displaying Processes – ps
* Displaying Directories – ls
* Getting Help – man
* Simple Commands used for processing
* Using Wildcards

**File Creation and Displaying**

* Creating files – using > symbol
* Redirection – using >> symbol
* Redirecting Input – using < symbol
* Displaying Files – cat, more
* Piping – using | symbol
* Word Count
* Sorting a file
* Removing duplicates
* Transliteration
* Using Head and Tail command in files

**Files Handling**

* Creating directory
* Moving files to directories
* Copying files to directories
* Changing directory
* Removing files and directories
* Special Files – . and ..
* Creating Aliases
* Using Aliases

**Cut and Paste**

* Displaying selected characters – using cut
* Displaying selected fields – using delimiters
* Displaying selected files – using paste
* Using paste with delimiters

**GREP and EGREP**

* Displaying content of the file using GREP
* Displaying content of the file using EGREP
* EGREP Meta-character
* Back Referencing concepts
* Using POSIX commands

**ZIP & TAR**

* Zipping a file
* Unzipping a file
* Combining a set of files using TAR
* Extracting TAR file
* Using TAR with ZIP

**FIND command**

* Searching for a file – using find
* Finding List of files and directories
* Finding Last modified files
* Find with -exec
* Find with -xargs

**Handling Jobs**

* Using /dev/null
* Foreground Jobs
* Background Jobs – &
* Stopping Jobs – kill
* Changing Permissions – chmod

**Shell Programming**

**Introduction to Shell**

* Basics of Shell
* Set and Unset a variable
* Displaying – using echo
* Using Expr
* Using Test
* Getting input – using read
* Header files of shell script – using Shabang (#!)
* Sample Shell script program

**Command Substitution**

* Assigning a command to a variable
* Storing output to a variable
* Assigning global value – using Export

**Command Line Arguments**

* Passing input in runtime.
* Using input inside a program

**Conditional & Looping Statement**

* Using if statement
* Using if –else statement
* Using Nested if statement
* Using ‘While’ Loop
* Using ‘Until’ Loop
* Using ‘For’ Loop
* Using CASE

**Functions**

* Creating a function
* Calling a function in file
* Calling a function in another file

**Advanced Commands**

* SED
* Replacing values in a file
* STTY
* TOP
* Sending an email – using MAIL
* HERE

**Editors**

* NANO
* PICO
* GEDIT
* Vi Editor
* AWK
* Basics of AWK
* Displaying values – using awk
* Using awk in Shell script

**Scheduler**

* Scheduling a job – using ‘Crontab’
* Scheduling a job – using ‘at’
* Scheduling a job – using ‘nohup’

**Advanced Shell Scripting**

* Monitoring a file
* Extracting data from HTML/XML file
* Trapping Signals

**Database Connectivity**

* Connecting MYSQL to Shell
* Running SQL queries from Shell Script
* Generating a report and storing in a file Shopping cart