

**Asha S. P.** B.E(Instrumentation),PGDIT,ITIL V3

**Freelance Technical Trainer**

Previously associated with: Nokia Solutions Networks

*Online/Classroom/Corporate Training*

*IT Exp:12+ years*

*Industries: Telecom, Software Testing & Automation using Shell, Perl & Python scripting*

*Trained more than 100 students*

*Onsite worked: Finland*

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- Online courses :**
- 1) **Unix Basic (user level) commands**
  - 2) **Shell Scripting with sed & awk**
  - 3) **Perl**
  - 4) **Python Scripting**

- High lights :**
- 1) **Real time examples**
  - 2) **Trouble shooting tips**
  - 3) **Excellent course material**
  - 4) **Hands-on LAB exercises**
  - 5) **Interview questions and tips**

## 1. Unix Basic – user level commands

**Duration : 8 Hours (weekdays)**

**Pre-requisite : Knowledge of one Operating System**

**Objective : To acquaint the user with the basic features and commands of the Unix operating system. The user is also exposed to powerful Unix tools and commands.**

### Course contents

#### Unix Overview

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- 1) History of Unix
- 2) Features of the Unix OS
- 3) Components of the Unix OS
- 4) Unix file system
- 5) file access permissions
- 6) passwd, chmod, chown, chgrp
- 7) umask
- 8) sticky bit

#### Unix Fundamentals

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- 1) Basic Unix commands
- 2) Shell Functions
- 3) I/O Redirection & Pipes
- 4) Command Separation & Grouping
- 5) Background Execution
- 6) Filename Expansion
- 7) Shell Variables,
- 8) Command Substitution
- 9) Quoting and Escaping Metacharacters
- 10) Command Execution
- 11) Startup Files
- 12) Customizing the User Environment

#### Unix tools

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- 1) grep

- 2) tr
- 3) cut
- 4) find
- 5) sort

## Vi Editor

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## 2. Shell scripting with sed & awk

**Duration : 8 Hours (weekdays)**

**Pre-requisite : Knowledge of Unix Operating System**

**Objective : To acquaint the user with shell scripting. The user is also exposed to powerful Unix tools like sed & awk.**

### Course contents

1. Introduction to UNIX
2. Unix tools & commands
3. Unix Processes
4. Vi Editor
5. Shell Basics
6. Types of shells
7. Shell functionality
8. Environment
9. Writing first script
10. Writing script & executing basic script
11. Debugging script - set
12. Making interactive scripts
13. Variables (default variables)
14. Mathematical expressions
15. Conditional statements – if, if else, if elif else
16. Test command
17. Logical operators-AND,OR,NOT
18. case –esac
19. Loops – For, Until, While, Break & Continue
20. Break & continue
21. Command line arguments - Positional parameters
22. Functions & file manipulations
23. Processing file line by line

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