

UNIX

Lesson 00:

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Document History

Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
	1.0	UNIX	Veena Deshpande	
30-Sep-2009	1.1	UNIX	Kishori Khadilkar	Revamped with new methodology
14-Oct-2009	1.1	UNIX	CLS team	Review
08-Jun-2011	1.2	UNIX	Rathnajothe Perumalsamy	Revamp/Refinement

Course Goals and Non Goals

Course Goals


- To understand UNIX operating system, Shell commands, Introduction to Processes, Writing simple shell scripts

Course Non Goals

- NA



Pre-requisites


 **None**

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Intended Audience

 **Novice Users**




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Day Wise Schedule

➤ Day 1

Lesson 1: Introduction to UNIX and Basic UNIX commands

Lesson 2: UNIX file system

Lesson 3: Simple Filters

➤ Day 2:

Lesson 3: Advanced Filters

Lesson 4: Introduction to Bourne Shell

Lesson 5: Vi Editor

Lesson 6: Processes and related commands

➤ Day 3:

Lesson 7: AWK

Lesson 8: Shell Programming

Lesson 9: Source Code Control System

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Table of Contents

- **Lesson 1: Introduction to UNIX Operating System and Basic UNIX commands**
 - 1.1: Operating System
 - 1.2: Basic UNIX Commands
- **Lesson 2: UNIX File System**
 - 2.1: File System
 - 2.2: File Types
 - 2.3: File Permissions
 - 2.4: File Related Commands
- **Lesson 3 : Filters**
 - 3.1: Simple Filters
 - 3.2: Advanced Filters

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Table of Contents

➤ Lesson 4: Introduction to Bourne Shell

- 4.1: Shell types
- 4.2: Working of shell
- 4.3: Metacharacter
- 4.4: Shell redirections
- 4.5: Command substitution

➤ Lesson 5: Vi Editor

- 5.1: Vi Editor
- 5.2: Input Mode Commands
- 5.3: Vi Editor – Save & Quit
- 5.4: Cursor Movement Commands
- 5.5: Paging Functions
- 5.6: Search and Repeat Commands
- 5.7: Vi Editor – Other Features
- 5.8: SED – Introduction to SED
- 5.9: SED Commands

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Table of Contents

➤ Lesson 6: Processes and related commands

- 6.1: Process
- 6.2: Parent and Child Processes
- 6.3: Running a Command
- 6.4: ps Command
- 6.5: Jobs in the Background
- 6.6: Process related commands
- 6.7: Overview of Process Scheduling
- 6.8: Lowering job execution priority – nice command
- 6.9: Process related commands

➤ Lesson 7: AWK Programming

- 7.1: Advanced Filter - awk
- 7.2: AWK variables
- 7.3: AWK
- 7.4: Logical and Relational operators
- 7.5: Advanced Filter - awk
- 7.6: Number Processing

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Table of Contents

➤ Lesson 7 :AWK Programming (contd..)

- 7.7: awk Command
- 7.8: BEGIN and END
- 7.9: Positional parameters and shell variable
- 7.10: Built in functions - numeric
- 7.11: If construct in AWK
- 7.12: Pattern Matching

➤ Lesson 8 : Shell Programming

- 8.1: Shell Variables
- 8.2: Environmental Variables
- 8.3: Shell script Commands
- 8.4: Arithmetic Operations
- 8.5: Command Substitution
- 8.6: Command Line Arguments
- 8.7: Conditional Execution


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Other Parallel Technology Areas

 **Windows OS**

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