

Shell Programming Course

Course Duration: 16 Hrs.

Course code: D72944

Course Overview

The Shell Programming Course is designed to provide learners with in-depth knowledge of shell scripting and automation in Unix/Linux environments. This course covers the fundamentals of shell commands, scripting techniques, control structures, and process management. Participants will gain hands-on experience in writing efficient shell scripts to automate repetitive tasks, manage files, and improve system administration productivity.

What you'll learn?

- Basics of Unix/Linux shell and command-line operations.
- Writing, executing, and debugging shell scripts.
- Using variables, operators, and control structures in scripts.
- Working with functions, loops, and conditional statements.
- Managing files, processes, and system tasks with shell scripting.
- Implementing automation for administrative and operational tasks.
- Best practices in writing optimized and reusable shell scripts.

Target Audience

- System Administrators
- Software Developers
- DevOps Engineers
- Database Administrators
- IT Professionals working in Unix/Linux environments
- Anyone interested in automation and scripting

Pre-Requisites

- Basic understanding of Unix/Linux operating systems.
- Familiarity with command-line usage.
- Programming experience is helpful but not mandatory.

Course Content

Module 1: Introduction to Unix/Linux and Shell Basics

Module 2: Shell Environment and Command-Line Utilities

Module 3: Variables, Operators, and User Inputs in Shell Scripts

Module 4: Conditional Statements and Looping Structures

Module 5: Functions, Debugging, and Error Handling

Module 6: File, Directory, and Process Management through Scripts

Module 7: Advanced Scripting and Automation Techniques

Module 8: Best Practices in Shell Scripting and Real-World Use Cases