

Unix Fundamentals

Course SSO502 Three days; Instructor-led

Introduction

This course will provide the attendee with a thorough introduction to the Unix operating system. The course is suitable for any variant of Unix.

Prerequisites:

There are no specific prerequisites. However, delegates should be familiar with computers and have an appreciation of computer terminology.

Course Outline

Introduction
Operating Systems review
Unix characteristics
Comparison of Operating Systems
Unix Commands I

System Access procedures
Command Syntax
On-Line Help
Basic File Manipulation Commands
Basic Directory Management Commands
Wildcards and Pattern Matching

Vi Text Editor
Understanding the "vi" Editor
Text Editing Commands
File Manipulation Commands
Configuration options

Unix Security (Level 1)
User Identification Process
File Permissions
Directory Permissions
Unix File/Directory Access Rules
SUID Bit
SGID Bit

Shell Introduction
Overview

Different types of Shell
Shell Variables
Korn Shell features
Program Execution details
Login Environment
User Profiles
Process Management
I/O Redirection and Piping

Device Management
Special Device Files
Using Printers
Using Terminals
Using Floppies/Tapes
Accessing MS-DOS Floppies
Backup Commands

Unix Commands II
Essential Unix Commands (grep, find, compress, cut, etc.)

Introduction to Bourne Shell Programming
Basic Regular Expressions
Shell Variables and Quoting
Programming Statements
Accessing Command-Line Arguments
Reserved Shell Variables
Signals

Using TCP/IP
Overview of TCP/IP
Telnet
Ftp
Berkley r* Commands