



UNIX Shell Programming

Duration: 2 Days **Course Code: SP**

Overview:

This Unix Shell Programming training course is designed to give delegates practical experience in developing and writing UNIX shell scripts. Most of the built-in shell commands are introduced together with the main program control structures. This course is not suitable for C shell programmers.

Target Audience:

Programmers, administrators and support personnel who need to understand existing shell scripts, automate procedures and write their own utilities. The UNIX Shell Programming course assumes knowledge of the UNIX Operating System to the level covered in the Introduction to UNIX Course. Some programming experience may also prove advantageous.

Objectives:

- Writing simple scripts to enhance basic command output
 - Using the shell's built-in loop constructs where appropriate
 - Using the various shell quoting mechanisms appropriately
 - Writing scripts to trap user interrupts
 - Manipulating shell variables and user-defined variables in scripts
 - User defined Functions
 - Implementing conditional execution facilities
 - Developing menu-driven shell scripts
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Prerequisites:

- UI, UNIX Introduction
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Follow-on-Courses:

- USA, UNIX System Administration
 - OSP, Oracle SQL
 - UT, UNIX Advanced Shell Programming Tools
 - TN, TCP/IP Networking
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Content:

Session 1: UNIX COMMAND REVIEW

- Basic Unix commands
- General commands
- File and directory handling commands
- Filename generation characters
- I/O Redirection features
- Other commands

Session 2: GETTING STARTED

- What is a shell script?
- Development guidelines
- Creating and editing shell scripts
- Naming and storing shell scripts
- Executing shell scripts

Session 3: USING VARIABLES

- Environment variables
- Local variables
- Assigning values to variables
- Assessing variable values
- Using quotes
- Delimiting variable names
- Echo control sequences

Session 4: INTEGER ARITHMETIC

- Using the expr command
- Using the (()) notation

Session 5: HANDLING RUN TIME DATA

- The read command
- Command line arguments

Session 6: CONDITION EXECUTION

- The if statement
- The test command
- Other test notations
- Default and substitute variables
- Exit status codes

Session 7: LOOP CONSTRUCTS

- The while loop
- The until loop
- The for loop
- The while true and until false loops
- Loop control commands

Session 8: MULTI-BRANCH DECISIONS

- The case statement
- Menu driven applications

Session 9: FUNCTIONS

- What is a function?
- Syntax
- Examples

Session 10: INTERRUPT HANDLING

- Interrupt signals
- Trapping interrupts

Session 11: ADDITIONAL FEATURES AND FACILITIES

- The exec commands
- The includes notation
- More about loops
- Arrays
- Here Documents

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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