

## HP-UX Shell Programming

Duration: 2 Days    Course Code: HSPR

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### Overview:

#### HP-UX Shell Programming Course Overview

This Hewlett Packard HP-UX Posix Shell Programming training course is designed to give delegates practical experience in developing and writing HP-UX 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.*

Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.

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### Target Audience:

#### Who will the Course Benefit?

Programmers, administrators and support personnel who need to understand existing shell scripts, automate procedures and write their own utilities.

The course assumes knowledge of the HP-UX Operating System to the level covered in the HP-UX Introduction course. Some programming experience may also prove advantageous.

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### Objectives:

- Course Objectives
  - To provide the skills needed to develop and customise shell programs.
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### Prerequisites:

- The HP-UX Shell Programming course assumes knowledge of the HP-UX Operating System to the level covered in the HP-UX Introduction course. Some programming experience may also prove advantageous.
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### Follow-on-Courses:

#### Further Learning

- HP-UX System Administration
  - Oracle SQL
  - HP-UX Advanced Shell Programming Tools
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## Content:

### HP-UX Shell Programming Training Course Course Contents - DAY 1

#### Course Introduction

- Administration and course materials
- Course structure and agenda
- Delegate and trainer introductions

#### Session 1: HP-UX COMMAND REVIEW

- Basic Unix commands
- General commands
- File and directory handling commands
- Filename generation and regular expression 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
- Exercise: Write a simple shell script

#### Session 3: USING VARIABLES

- Environment variables
- Local variables
- Assigning values to variables
- Assessing variable values
- Using quotes
- Delimiting variable names
- Echo control sequences
- Exercise: Add variables to a script

#### Session 4: INTEGER ARITHMETIC

- Using the expr command
- Using the (( )) notation
- Exercise: Add integer arithmetic to a shell script

#### Session 5: HANDLING RUN TIME DATA

- The read command
- Command line arguments
- Exercise: Writing a generic shell script
- Exercise: Writing an interactive shell script

#### Session 6: CONDITIONAL EXECUTION

- The if statement
- The test command
- Exercise: Adding validation to previous scripts

#### Session 7: ADDITIONAL KORN,BASH ; POSIX SYNTAX

- Other test notations
- Default and substitute variables
- Exit status codes
- Exercise HP-UX Shell Programming Training Course Course Contents - DAY 2

#### Session 8: LOOP CONSTRUCTS

- The while loop
- The until loop
- The for loop
- The while true and until false loops
- Loop control commands
- Exercise: Enhancing the previously written scripts
- Exercise: Writing a script to copy files using a 'for' loop
- Exercise: Writing a script to generate numbers with the 'while' loop

#### Session 9: MULTI-BRANCH DECISIONS

- The case statement
- Menu driven applications
- Exercise: Developing and writing a menu system

#### Session 10: FUNCTIONS

- What is a function?
- Syntax
- Examples
- Exercise: Add a function to a script

#### Session 11: INTERRUPT HANDLING

- Interrupt signals
- Trapping interrupts
- Exercise: Adding traps to the menu script

#### Session 12: ADDITIONAL FEATURES AND FACILITIES

- The exec commands
- The includes notation
- More about loops
- Arrays
- Here Documents
- Exercise: Create a here script

## Further Information:

For More information, or to book your course, please call us on 0800/84.009

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[www.globalknowledge.com/en-be/](http://www.globalknowledge.com/en-be/)