



## HP-UX Shell Programming

**Duration: 2 Days**    **Course Code: HSPR**

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### 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.

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### Target Audience:

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 Introduction to HP-UX Course. Some programming experience may also prove advantageous.

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### 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:

- HI, HP-UX Introduction

### Testing and Certification

- This HP-UX Shell Programming course, together with the HP-UX Introduction and HP-UX Administration courses, covers some of the topics required for the HP-UX 11i v3 System Administration (HP0-P20) exam.
  - Exams are not included as part of the course.
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### Follow-on-Courses:

- HSA, HP-UX System Administration
  - OSI, Oracle SQL
  - HASP, HP-UX Advanced Shell Programming Tools
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## Content:

### **Session 1: HP-UX 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

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## 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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