

# Course Outline



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## Unix Shell Programming

### Course Description:

The objective of this course is to provide a comprehensive introduction to Shell Programming.

At the end of the course delegates will have the fundamental skills required to write simple and complex Shell scripts to automate jobs and processes in the Unix environment

### Pre-requisites:

Delegates should be competent in the skills covered by the PTR Unix Fundamentals course.

### Course Content:

- **Introduction**
  - The UNIX Shell
  - The Bourne, Korn & C Shells
  - UNIX Shell Scripts
- **Review**
  - Commands, Is, Redirection, Pipes, Find, Grep, Sort
- **UNIX Shell Features**
  - Invoking a Shell, Command line expansion, Command Arguments, Meta-characters, Quotation marks, Redirection, File descriptors, Here documents, Redirection, Pipes, Tee, Defining Exporting and Environment variables, Command grouping, Conditional execution
- **Basic Shell Scripts**
  - Positional and Automatic Parameters, Set, Reading input, Writing to standard output, Display attributes, Interactive Shell scripts

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- **Bourne & Korn Shell Programming**
- **Korn Shell Extensions**
- If statement, While statement, Case statement, Test command, For statement, Break statement, Continue statement, Tests on numeric values, String comparisons, Command exit status, Logical operators, Error handling, Arithmetic.
- Extensions, Command substitution, Arithmetic expressions, Valid arithmetic operators, Variable attributes, Typeset, Built-in variables, Select command.

**Course Duration:**

**2 Days**

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