

BSH-102 Bash shell script programming

Course Description

Prerequisite: basic Linux/UNIX knowledge

Delivery Method: Instructor-led training (ILT)

Course Length: 5 days

Course Outline

1. Introduction

- What is shell
- Type of shells
- Writing shell scripts

2. Special characters

- •Special characters in file globbing
- •Special characters as metacharacters
- •Special characters as shell keywords
- •Special characters in regular expressions
- Quoting
- Escaping

3. Variables and parameters

- Variable substitution
- •Indirect references
- Variable names
- Variable assignment
- Variable scopes
- Arrays
- Positional parameters
- Exit and Exit Status

4. Tests

- •if/then construct
- Test commands
- •File test operators
- Other comparison operators
- Compound comparisons
- List constructs

5. Loops and Branches

- •• for loops
- •while loops
- •until loops
- Loop control
- •case/esac
- •select loop

6. Another look of variables

- Numerical constants
- Operators
- •The double-parentheses construct
- Internal Variables
- Typing variables
- Manipulating Variables
- Arithmetic expansion

7. Commands 1

- Command substitution
- Internal commands and Builtins
- Aliases

8. Commands 2

- •External Commands
 - wc, basename, dirname, find, grep, sed, awk
- Regular Expressions
- Globbing

9. Working with I/O

- •Here documents
- Here strings
- •I/O redirection

10. Other topics

- Subshells
- Restricted shells
- Process substitution
- Functions
- Using traps