

# AIX Fundamentals

## Description

This course is the essential foundation for anyone intending to work in an AIX technical environment. The course introduces and explains the AIX computing environment at a conceptual and terminological level, and also includes a number of practical, hands-on exercises that reinforce the knowledge gained during the formal classroom sessions.

### Delegates will learn how to

- use AIX documentation
- move around the AIX directory structure
- create, copy and move files and directories
- understand AIX file permissions
- use the vi editor
- list and control processes
- understand and use AIX metacharacters
- use grep, cut, awk, sed and sort
- change login profiles
- understand the basics of AIX scripting
- use basic archiving commands
- utilise basic and advanced utilities.

# Outline

## Introduction and Orientation

- Understanding AIX components; logging in and out of an AIX system; understanding command structure; using keyboard control characters; using mail.

## Files & Directories

- Files and directories: what are they; becoming familiar with important AIX directories; relative vs full paths; copying, moving, creating and deleting files & directories; displaying text files; useful file utilities, the find command; hard vs symbolic links.

## Permissions

- Permission concepts; directory vs file permissions; changing permissions; controlling default permissions with umask.

## Using vi

- Opening files and inserting text; creating and editing files; the most important survival commands; saving changes.

## Shell metacharacters

- Why metacharacters; using wildcards for filenames; command redirections; combine commands with pipes; using command and variable substitution; disabling metacharacters.

## Initialisation scripts

- Aliases; shell functions; setting and exporting variables; configuring the shell with set; using .profile and .kshrc to customise the environment.

## Processes

- Understanding process structure; listing and controlling processes; using nice and renice; running background jobs.

## Shell script introduction

- Running scripts; positional parameters; conditional execution; iterative processing with for and while; exit codes.

### **Basic utilities**

- grep; Regular expressions; Using sort; The find command; Progress testing and check; Command summary.

### **Advanced utilities**

- Understanding regular expressions; using grep; extracting portions of text with cut and awk; using sed and sort to edit and sort text.

## **Prerequisites**

There are no prerequisites for this course.