

**Price:** R6,900.00 excl. VAT  
**Duration:** 5 days  
**Code:** PERLP

# Perl Programming

## Description

The Perl Programming course covers the fundamentals of the Perl scripting language. It includes the syntax and structure of Perl 5, safe programming practices and differences between running Perl on Linux and other operating systems.

## Objectives

Delegates who complete the Perl Programming course will be able to:

- Write simple to intermediate Perl scripts.
- Use Perl for administering systems.
- Process & transform text data.
- Access databases with Perl.

## Intended Audience

The Perl Programming course is intended for programmers and system administrators who want to learn to program in the Perl language.

## Prerequisites

Previous programming / scripting experience is essential.

## Course Contents

*The lecturer reserves the right to modify the contents of the course to suit the needs of the delegates.*

### **Perl**

**Overview** • Applications. • Scripts. • Interpretation. • Platforms. • Invocation. • Structure. • Data types & variables. • Subroutines. • Modules. • Expressions. • Output. • Blocks.

### **Scalar Variables &**

**Literals** • Literals. • Assignment. • Interpolation. • Scoping. • Conventions. • Built-in variables. • Type conversion. • Operators. • Comparisons.

**Arrays / Lists** • Definition & initialisation. • Subscripting. • Slices. • Sorting. • Scalar context. • Properties. • Array functions. • Command line arguments.

**Subroutines** • Definition. • Parameters (list). • Prototypes. • Returning values. • Calling subroutines.

**Control Structures** • Selection. • Iteration. • No switch / case. • Terminating loops. • Labels and goto. • Error handling.

**Regular Expressions** • Principles. • Character classes. • Anchors. • Meta-characters. • Escaping. • Searching. • Substitution. • Splitting text. • Translation. • grep & map functions.

**File I/O and Here Documents** • Handles. • STDIN and STDOUT. • Open / Create / Close. • Reading & writing. • Binary files - Pack & unpack. • Here documents • DATA sections. • Pipes. • Redirection. • Globbing. • Directories.

**Associative Arrays (Hashes)** • Syntax. • Initialisation. • Access. • Deleting. • Traversing. • Key and value lists. • Sorting.

**Systems Programming** • External programs. • Backticks. • Processes. • Environment.

**Other Features** • Namespaces. • References. • Arrays of arrays. • Useful modules. • Databases (DBI). • Win32 COM (ADO etc). • Modules. • Debugger.

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**CGI Overview** • Server-side scripting. • Standard input, output use. • Security. • CGI Environment variables. • Processing forms. • Maintaining 'state'.