

Price: R7,800.00 excl. VAT
Duration: 4.5 days
Code: PERLP

Perl Programming

Description

The Perl programming language is a well-established language that is available free of charge for all operating systems. It is widely used for many different tasks: from text processing to system administration to testing. This course will teach you the fundamentals of the Perl language so that you can create your own Perl scripts, or maintain existing Perl code. You will learn safe programming practices, and how to run Perl on different operating systems.

Objectives

After you have completed the Perl Programming course, you will be able to:

- Write simple to intermediate Perl scripts.
- Use Perl for administering systems.
- Process and transform text data.
- Read and maintain Perl code.
- Access databases with Perl.

Intended Audience

You should attend the Perl Programming course if:

- You are a programmer and you want to learn the Perl language.
- You need to support existing Perl code.
- You are a system administrator and you want to write Perl scripts.

Prerequisites

It would be helpful, but is not essential, if you have some previous programming experience before you attend the Perl Programming course.

Course Contents

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.
- 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.

CGI Overview

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

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