

Programming in Perl Technologies

COURSE DESCRIPTION

This course teaches both the programming interface and the techniques that can be used to write procedures in **Perl** (Practical Extraction and Report Language). **Perl** is now available for all system platforms, and is usually provided by the system's distributor (except **Windows**).

COURSE OBJECTIVES

Each student will be able to use **Perl** techniques and commands to write scripts to perform various user and administrative tasks.

COURSE TOPICS

Overview of Perl

- Purpose of the language
- History of the development of **Perl**
- Control capabilities:
 - files
 - processes
 - network
- obtaining **Perl** and building / installing
- obtaining modules from CPAN

Writing Perl Scripts

- Layout of a **Perl** procedure
- Execution methods
- Types of variables
 - scalars
 - lists (arrays)
 - associative arrays (hashes)
- Perl** built-ins
 - globals
- Pragmas
 - usage in **Perl** scripts
 - documentation
 - implementation

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COURSE TOPICS

Operators

- precedence
- arithmetic
- increment/decrement pattern matching
- relational
- conditional
- assignment

Perl Programming Constructs

- Looping statements
- Decision statements

Perl Expressions

- Regular expressions review
- Expressions common to **Perl**/Unix
- Expressions unique to **Perl**

Perl File I/O

- Using ARGV value(s)
- Using Filehandles

Interfacing Perl with the Operating System

- System calls
- Process control
- File manipulation
- Adding and using (contributed) Perl modules

Subroutines in Perl procedures

- Using as functions
- Passing arguments (scalars)
- Passing arguments (arrays)
- Introduction to references

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COURSE TOPICS

Using Perl Extension Functions

Location of procedures

Types of extensions

The **require** statement

The **use** statement

COURSE DURATION

This course normally requires **three** (3) days, approximately 50% lecture and 50% lab time.

COURSE PREREQUISITES

Completion of the **Fundamentals of Unix (or Linux)** course is assumed (if working on a **Unix / Linux Perl** platform. Usage of **NOTEPAD** for **Windows**-based **Perl** is assumed. A knowledge of **awk** is useful but not mandatory.