

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

Programming in Perl Technologies 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

Programming in Perl Technologies 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.