

# **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.