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CP040 - Perl Programming

Length: 5 Days

Description:

This course will provide the attendee with the knowledge needed to program in the Perl programming language using CGI. In this course the attendee will learn about the structure of a Perl program and Perl variables. In addition to this the attendee will learn how to create dynamic home pages and HTML forms using Perl.

Course Content

I Introduction to Perl

- a What is Perl
- b Where to get Perl
- c Structure of a Perl Program
- d The Perl Command Line
- e The Print Statement

II Perl Variables

- a Scalars
- b Lists
- c Arrays
- d Variable Scoping
- e Variable Interpolation
- f Operations on Variables
- g Accessing the Perl Program's Command Line

III Environment Variables

- a The Operating System Environment
- b The Web Browser Environment

IV Creating Web Pages Dynamically

- a Creating Forms

V Error Handling

- a The die Function
- b The warn Function
- c The eval Function

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VI Creating, Reading and Writing Files

- a Opening a File
- b File Testing
- c Handling Errors
- d Dynamic Web Pages Revisited
- e Creating a Web Page Counter
- f Working with Tabular Data
- g Reading and Formatting a Table for Printing
- h Loading a Table into an Associative Array
- i Working with Fixed-Length Records
- j Reading and Formatting Data for Printing
- k Creating Tables in HTML
- l Putting Tabular Data on the Web

VII Using the Perl Debugger

- a Starting the Debugger
- b Debugger Commands

VIII Regular Expressions (Part 1)

- a Pattern Matching
- b Variables and Pattern Matching
- c Searching Tables and Displaying Results

IX Regular Expressions (Part 2)

- a Variables and Pattern Substitution
- b Variables Substitution and CGI Data Handling

X Controlling Program Flow

- a Loops and ifs

XI Functions and Subroutines

- a Call by Reference
- b Call by Value
- c Return Values

XII Packages (Encapsulation)

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XIII The Standard Perl Library

- a The @ INC Array
- b The require Function
- c Using the “system” Function
- d Pipes

XIV Other Library Packages

XV Common Tasks and Solutions

- a Processing Strings with Escape Characters
- b Handling Variables
- c Values from Command Line

XVI The Common Gateway Interface (CGI)

- a Communicating with the Internet Browsers
- b The Post Method
- c The Get Method

XVII Networking With Perl

- a Introduction to Client/Server Concepts
- b Network Protocols
- c DNS Functions
- d WWW Client/Server Methods

XVIII Processing Form Input

- a Text Boxes
- b Radio Buttons
- c Free-form Text Windows
- d Drop-down Combo Boxes

XIX Logging Software