

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

Advanced Perl CGI

Course Description:

Perl: Advanced is designed to introduce intermediate programmers to general Perl programming practices and problem solving, as well as issues specific to CGI programming and Web application development.

Pre-requisites:

To ensure your success, we recommend you first take the following course or have equivalent knowledge:

-Perl/CGI: Introduction

Students will be expected to know:

- Basic HTML
- Basic CGI concepts
- Basic Perl syntax

Course Content:

- **Literate Programming for Perl**
 - Literate Programming
 - Comments
 - Code Formatting Conventions
 - Naming Variables & Subroutines
 - Documentation
- **Using Perl Modules**
 - CPAN: Comprehensive Perl Archive Network
 - Using Perl Modules
 - Objects & Methods
 - Modules Managers
 - Installing Modules Manually

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- **References & Nested Variables**
 - Introduction to References
 - Creating References
 - Values for References

- **Useful Perl Functions**
 - Status Notification Functions
 - Evaluation of Perl Code
 - Linear Text Processing Functions
 - Array Processing Functions
 - Hashes
 - Random Number Generation

- **Advanced Command Structure Topics**
 - Next & Last in Loops
 - Establishing Default Input with \$_
 - Advanced Comparison Operations

- **File & Directory Manipulation for Perl**
 - File & Directory Manipulation Operators
 - Perl File & Directory Functions
 - Locking a File

- **Database Concepts**
 - Database Products
 - Basic Database Concepts
 - Perl Interface & Drivers
 - Using SQL in Your Script
 - Database Design
 - Advanced SQL

- **Web Concepts**
 - CGI.pm
 - Sessions & Cookies

- **E-Commerce**
 - Online Order Forms
 - Shopping Basket
 - Downloading Orders
 - Realtime Credit Card Processing

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- **Using Perl to Send E-mail**
 - Using a Mail Server from Perl
 - Net::SMTP
 - Automated E-mail Tasks
- **Using HTML Templates**
 - Simple HTML Templates
 - HTML::Template
- **Creating Subroutines**
 - Strategies for Code Re-use
 - Subroutines
 - Scope
 - Passing Parameters to Subroutines
 - Returning Results from Subroutines
 - Recursive Subroutines
- **Perl Libraries & Modules**
 - Perl Libraries
 - Modules
- **Command Line Environment for Perl**
 - Standardizing Command-line Syntax
 - Perl Flags
- **Debugging Code**
 - Getting Better Debugging Information
 - Perl Debugger
- **Interacting with Outside Programs**
 - Invoking Operating System Commands
 - Pipes
- **Platform Considerations**
 - Installing Perl
 - Cross-platform Issues

Course Duration:

3 Days

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