

# Course Outline



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## Introduction To Perl / CGI

### Course Description:

This 2-day course provides an in-depth understanding and hands-on knowledge of the capabilities of the de facto Internet client-server communications protocol: Common Gateway Interface (better known as CGI). In this course, you will learn about the specifications of the CGI protocol, details regarding its operation, and how to use the Perl programming language to perform common and powerful CGI communications and processing tasks on a Web server. To get the most from this course, you should have a thorough understanding of and experience with HTML 4.0. Experience with a programming language is not necessary, but will speed your progress.

### Pre-requisites:

A solid knowledge of HTML 4.0, including forms and form properties, is assumed. In addition, students should be familiar with the process of uploading files to a Web server via FTP (File Transfer Protocol).

### Course Content:

- **Introduction to CGI**
  - CGI: Beyond HTML
  - How a Web Server Functions
  - The CGI Protocol
  - CGI Programming Languages
- **Introduction to Perl**
  - History of Perl
  - Perl Advantages & Disadvantages
  - The Perl Interpreter
  - Perl File Conventions
  - Using Perl on UNIX

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- **How Perl Talks to the Browser**
  - Perl / Browser Communication
  - Making a CGI Look Like a Web Page
  - Print Using "qq"
  - Printing Multiple Lines
- **Perl Variables**
  - Variables
  - Scalars
  - Arrays
  - Hashes
- **Perl Loops & Logic**
  - Loops
  - Logical Operations
  - if
  - Else & elsif
- **How the Browser Talks to Perl**
  - Environment Variables
  - GET & POST
  - Using CGI.PM
  - Debugging CGIs
- **Storing & Retrieving Information**
  - Storing Data
  - Appending Data
  - Reading Data
- **REGEX: The Match Operator**
  - Introduction to Regexes
  - The m// Operator
  - i Modifier
  - Special Characters
  - Character Classes
  - Parentheses
- **REGEX: The Substitute Operator**
  - s/// Operator
  - More Modifiers
  - Backreferences

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- **REGEX: The Substitute Operator**
  - **Subroutines**
  
  - **CGI Techniques**
  
  
  - **CGI Security**
- tr/// Operator
  - Organizing Data
  - Scoping
  - Functions
  
  - Outputting Graphics
  - Outputting PDF
  - Redirecting the Browser
  - Using HTML Templates
  - Cookies
  - Sending E-mail Using CGI
  
  - Web Server Security
  - Writing Secure CGIs

**Course Duration:**

**2 Days**

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