Introduction Perl Programming Essentials (TT4925)

Category: Software Development & Programming | **Vendor:** Trivera Tech

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Introduction to Perl Programming Essentials is an Introductory-level practical, hands-on Perl scripting training course that guides the students from the basics of writing and running Perl scripts to using more advanced features such as file operations, report writing, the use of regular expressions, working with binary data files, and using the extensive functionality of the standard Perl library. Students will immediately be able to use Perl to complete tasks in the real world.

About This Course

Introduction to Perl Programming Essentials is an Introductory-level practical, hands-on Perl scripting training course that guides the students from the basics of writing and running Perl scripts to using more advanced features such as file operations, report writing, the use of regular expressions, working with binary data files, and using the extensive functionality of the standard Perl library. Students will immediately be able to use Perl to complete tasks in the real world.

Who Should Attend

This course is appropriate for anyone who wants to create applications or modules to automate and simplify common tasks with Perl.

Prerequisites & Entry Requirements

General Prerequisites:

This in an introductory-level Perl course geared for experienced users who want to use Perl in web development projects, or who
wants to automate or simplify common tasks with the use of Perl scripts. Basic familiarity with any programming or scripting
language would be helpful, along with a working, user-level knowledge of Unix/Linux, Mac, or Windows.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Working within in an engaging, hands-on learning environment, guided by our expert web development, PHP practitioner, students will learn to:

Create a working script that gets input from the command line, the keyboard, or a file

Use arrays to store and process data from files

Create formatted reports

Use regular expressions

Use the appropriate types of variables and data structures

Refactor duplicate code into subroutines and modules

What is available in the standard library

Use shortcuts and defaults, and what they replace

Detailed Course Outline

Session: An Overview of Perl

- What is Perl
- Perl is compiled and interpreted
- Perl Advantages and Disadvantages
- Downloading and Installing Perl
- Which version of Perl
- Getting Help

Session: Creating and running Perl Programs

- Structure of a Perl program
- Running a Perl script
- Checking syntax and warnings
- Execution of scripts under Unix and Windows

Session: Basic Data and I/O

- Numeric and Text literals
- Math operators and expressions
- Scalar variables
- Default values
- Writing to standard output
- Command line arguments
- Reading from the standard input

Session: Logic and Loops

- About flow control
- The if statement and Boolean values
- Using unless and elsif
- Statement modifiers
- warn() and die()
- The conditional construct
- Using while loop and its variants
- Using the for loop
- Exiting from loops

Session: Lists and Arrays

- The list data type
- Accessing array elements
- Creating arrays
- List interpolation
- Arrays and memory
- Counting elements
- Iterating through an array
- List evaluation
- Slices and ranges

Session: Reading and writing text files

- File I/O Overview
- Opening a file
- Reading text files
- Writing to a text file
- Arrays and file I/O
- Using the > operator

Session: List functions

- Growing and shrinking arrays
- The split() function
- Splitting on whitespace
- Assigning to literal lists
- The join() function
- The sort() function
- Alternate sort keys
- Reversing an array

Session: Formatting output

- Using sprintf() and printf()
- Report formatting overview
- Defining report formats
- The write() function
- Advanced filehandle magic

Session: Hashes

- Hash overview
- Creating hashes
- Hash attributes
- Traversing a hash
- Testing for existence of elements
- Deleting hash elements

Session: References

- What is a reference
- The two ways to create references
- References to existing data
- References to anonymous data
- Dereferencing scalar, array, and ash references
- Dereferencing elements of arrays and hashes
- Multidimensional arrays and other data structures

Session: Text and Regular Expressions

- String length
- The substr() function
- The index() and rindex() functions
- String replication
- Pattern matching and substitution
- Regular expressions

Session: Raw file and data access

- Opening and closing raw (binary) files
- Reading raw data
- Using seek() and tell()
- Writing raw data
- Raw data manipulation with pack() and unpack()

Session: Subroutines and variable scope

- Understanding packages
- Package and Lexical variables
- Localizing builtin variables
- Declaring and calling subroutines
- Calling subroutines
- Passing parameters and returning values

Session: Working with the operating system

- Determining current OS
- Environment variables
- Running external programs
- User identification
- Trapping signals
- File test operators
- Working with files
- Time of day

Session: Shortcuts and defaults

- Understanding $_
- shift() with no array specified
- Text file processing
- Using grep() and Using map()
- Command-line options for file processing

Session: Data wrangling

- Quoting in Perl
- Evaluating arrays
- Understanding qw( )
- Getting more out of the > operator
- Read ranges of lines
- Using m//g in scalar context
- The /o modifier
- Working with embedded newlines
- Making REs more readable
- Perl data conversion

Session: Using the Perl Library

- The Perl library
- Old-style library files
- Perl modules
- Modules bundled with Perl
- A selection of modules
- Getting modules from ActiveState
- Getting modules from CPAN
- Using Getopt::Long

Session: Some Useful Tools

- Sending and receiving files with Net::FTP
- Using File::Find to search for files and directories
- Grabbing a Web page
- Some good places to find scripts
- Perl man pages for more information
- Zipping and unzipping files

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Additional Course Details

Nexus Humans Introduction Perl Programming Essentials (TT4925) training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Introduction Perl Programming Essentials (TT4925) course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for Introduction Perl Programming Essentials (TT4925)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 4-day Introduction Perl Programming Essentials (TT4925) course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction Perl Programming Essentials (TT4925) training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction Perl Programming Essentials (TT4925)?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction Perl Programming Essentials (TT4925). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Perl

Q: Why choose Nexus Human for Introduction Perl Programming Essentials (TT4925)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction Perl Programming Essentials (TT4925) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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