

Introduction to Programming - JavaScript

Duración: 3 Días Código del Curso: ITPJS

Temario:

English - Please note this course is only available in English.

Español - Por favor, tenga en cuenta que esta formación solo está disponible en inglés.

Introduction to Programming - JavaScript Course Overview

The Introduction to Programming - JavaScript course comprises sessions dealing with variables, expressions, conditional statement

Dirigido a:

Who will the Course Benefit?

This Introduction to Programming - JavaScript course is designed for those new to programming, who want to learn about the terminology, structures, and principles of programming generally.

Attending this course will provide delegates with the prerequisite knowledge and required skills to go on to learn any programming language in detail, e.g. Java, JavaScript, Python, C, C++, C#, PHP, Perl, Ruby, etc.

Objetivos:

■ Course Objectives

■ This course aims to provide the delegate with the knowledge to be able to produce simple computer programs that demonstrate an understanding of the three core principles of programming - sequence, selection, and iteration. Delegates will also be exposed to functions, objects, and both procedural and object-oriented programming paradigms. The course further aims to prepare delegates to go on to learn any one of many programming languages in detail.

Prerequisites:

■ Delegates should be able to navigate the filesystem, edit a file, and browse the web. No programming experience is necessary.

Siguientes cursos recomendados:

Further Learning

- JavaScript Developer
- Front-end Web Developer
- Object Oriented Analysis & Design

Contenido:

Introduction to Programming - JavaScript Training Course Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: INTRODUCTION

- Thinking Like a Computer
- Input/Output
- Storage
- Arithmetic
- Comparison
- Decisions
- Repetition
- Reuse
- What is a Program?
- Statements
- Comments
- What is Code?
- From Source Code to Runtime
- Why So Many Languages?
- What Does a Programmer Do?
- Hello World
- stdin and stdout
- The Console

Session 2: VARIABLES

- Variables - What and Why
- Name and Value
- Literals
- Data Types
- Declaration
- Initialisation
- Assignment
- Constants

Session 3: EXPRESSIONS

- Expressions - What and Why
- Operators and Operands
- Unary and Binary Operators
- Arithmetic Operators
- Assignment Operators
- Precedence
- Associativity
- Complex Expressions Introduction to Programming - JavaScript Training Course Course Contents - DAY 2

Session 4: CONDITIONAL STATEMENTS

- Conditional Statement - What and Why
- Comparison/Relational Operators
- Logical Operators
- if else
- switch
- The Ternary Operator
- Code Blocks
- Variable Scope

Session 5: COLLECTIONS

- Collections - What and Why
- Strings
- Arrays/Lists
- Declaration
- Initialisation
- Getting and Setting Elements

Session 6: ITERATIVE STATEMENTS

- Iterative Statements - What and Why
- while
- do
- for
- break
- continue
- Array/List Traversal

Session 7: FUNCTIONS

- Functions - What and Why
- Declaration
- Parameters
- Return Type
- Invocation/Call
- Arguments
- Return Value
- Variable Scope (Review)
- Modules
- Libraries
- Procedural Programming Introduction to Programming - JavaScript Training Course Course Contents - DAY 3

Session 8: OBJECTS

- Object - What and Why
- Object Literals
- Object Properties
- The Trouble with Object Literals
- Classes
- Fields
- Methods
- Instances
- Reference Variables
- Primitive Variables
- Passing by Val/Ref
- Object Oriented Programming
- The Three Principles

Session 9: COMPILATION ; EXECUTION

- From Source Code to Runtime (Review)
- Compilation
- Debugging
- Linking
- Execution
- Interpretation
- Platform Dependence
- Compilation and Interpretation (Bytecode)

Session 10: BEST PRACTICES

- Program Design
- Stating the Problem
- Devising the Solution
- Pseudocode
- Coding Conventions
- White Space
- Indenting
- Naming
- Coding Style
- Readability
- Flexibility
- Scalability
- Unit Testing
- Test Driven Development (TDD)

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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