JAVASCRIPT PROFESSIONAL DEVELOPER COURSE SCHEDULE

Course Schedule: JavaScript Fundamentals

Week 1: Introduction to JavaScript and Basics

Monday:

- **Module 1: Introduction to JavaScript**

    Overview of JavaScript

    Basic Structure of JavaScript Programs

Tuesday:

- **Module 2: Data Types and Variables**
    - Overview of the eight data types
    - Differences between var, let, and const

Wednesday:

- **Module 3: Operators**
    - Arithmetic Operators
    - Comparison Operators

Thursday:

- **Module 3: Operators (cont'd)**
    - Logical Operators
    - Ternary

Friday: Operators

- **Module 4: Functions**
    - Function Declarations
    - Introduction to Arrow Functions

Week 2: Functions and Control Flow

Monday:

- **Module 4: Functions (cont'd)**
    - Function Execution and Return Values
    - Default Parameters

*Students will receive a certificate of completion upon successful completion of this course.

Tuesday:

- **Module 4: Functions (cont'd)**

  ○ Callback Functions

Wednesday:

- **Module 5: Control Flow**

  ○ Conditional Statements (if, else if, else)

Thursday:

- **Module 5: Control Flow (cont'd)**

  ○ Switch Statements

  ○ Boolean Values

Friday:

- **Module 5: Control Flow (cont'd)**

  ○ Checking for Null and Undefined

Week 3: Scope, Arrays, and Loops

Monday:

- **Module 6: Scope**

  ○ Understanding Scopes (Global, Function, Block)

Tuesday:

- **Module 6: Scope (cont'd)**

  ○ Good Scoping Practices

Wednesday:

- **Module 7: Arrays**

  ○ Creating and Modifying Arrays

Thursday:

- **Module 7: Arrays (cont'd)**

  ○ Accessing and Modifying Elements

  ○ Combining Arrays

Friday:

- **Module 7: Arrays (cont'd)**
    - Array Length and Nested Arrays

Week 4: Loops, Iterators, and Objects

Monday:

- **Module 8: Loops**
    - Types of Loops (for, while, do...while)

Tuesday:

- **Module 8: Loops (cont'd)**
    - Control Statements (break, continue)
    - Nested Loops

Wednesday:

- **Module 9: Iterators**
    - Array Iterators (for Each, map, filter, reduce)

Thursday:

- **Module 10: Objects**
    - Creating Object Literals
    - Accessing Properties (Dot Notation vs. Bracket Notation)

Friday:

- **Module 10: Objects (cont'd)**
    - Nested Objects
    - Identifying Undefined Objects
    - Spread Operator and Destructuring

Course Conclusion

- **Final Project:** Overview and project assignment.
- **Review and Q&A:** Address questions, clarify concepts, and discuss project expectations.

This schedule allows for focused learning each week while providing ample time for practice and application of concepts.

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