301-258-8200 | Sales@PhoenixTS.com | www.PhoenixTS.com

View Full Course Details including Latest Schedule Online

PHOENIX TS

# Introduction to JavaScript

**BONUS! Cyber Phoenix Subscription Included:** All Phoenix TS students receive complimentary ninety (90) day access to the Cyber Phoenix learning platform, which hosts hundreds of expert asynchronous training courses in Cybersecurity, IT, Soft Skills, and Management and more!

## Course Overview

This two (2) day instructor-led course provides students the ability to:

- Define objects
- Understand essential OOP principles
- Work with inheritance
- Understand advanced patterns for object creation
- Manage dynamic typing
- Understand duck typing and polymorphism

## What's Included

- Class exercises in addition to training instruction
- Courseware books, notepads, pens, highlighters and other materials
- Full breakfast with variety of bagels, fruits, yogurt, doughnuts and juice
- Course retake option
- Tea, coffee, and soda available throughout the day
- Freshly baked cookies every afternoon – *only at participating locations

For group training options, call us at **(240) 667-7757** or email promo@phoenixts.com.

## Schedule

Currently, there are no public classes scheduled. Please contact a Phoenix TS Training Consultant to discuss hosting a private class at 301-258-8200.

## Course Outline

Lesson 1: Diving into Objects and OOP Principles

- Creating and Managing Object Literals .
- Defining Object Constructors
- Using Object Prototypes
- Using Classes
- Beginning with Object-Oriented JavaScript
- Checking Abstraction and Modeling Support
- Analyzing OOP Principles Support in JavaScript

Lesson 2: Working with Encapsulation and Information Hiding

- Setting up Strategies for Encapsulation and Information Hiding
- Using the Meta-Closure Approach
- Using Property Descriptors
- Implementing Information Hiding in ES6 Classes

Lesson 3: Inheriting and Creating Mixins

- Implementing Objects, Inheritance, and Prototypes
- Using Class Inheritance
- Controlling Inheritance
- Implementing Multiple Inheritance
- Creating and Using Mixins

Lesson 4: Defining Contracts with Duck Typing

- Managing Dynamic Typing
- Defining Contracts and Interfaces
- Implementing Duck Typing
- Comparing Duck Typing and Polymorphism

Lesson 5: Advanced Object Creation

- Mastering Design Patterns, Object Creation, and Singletons
- Implementing an Object Factory
- Exploiting the Builder Pattern

Lesson 6: Working with Data

- Managing User Interfaces
- Implementing Presentation Patterns
- What is Data Binding?
- Implementing Data Binding
- Applying the Publish/Subscribe Pattern

Lesson 7: Asynchronous Programming and Promises

- Is JavaScript Asynchronous?
- Writing Asynchronous Code
- Introducing Promises

Lesson 8: Organizing Code

- Taking Control of the Global Scope
- Creating Namespaces
- Organizing Code with the Module Pattern
- Loading the Module
- Using the ECMAScript 2015 Modules

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**individual courses for CPE credit. Complaints re-garding registered sponsors may be submitted to the National Registry of CPE Sponsors through its web site: www.nasbaregistry.org**

Starting at **$1,800**

**ATTENTION**

For GSA pricing or Contractor quotes call 301-258-8200 – Option 2.

GSA



Price Match Guarantee

We'll match any competitor's price quote. Call us at 240-667-7757.

## Included in this **Introduction to JavaScript**

- 2 days instructor-led training
- Introduction to JavaScript training book

- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class*
- Tea, coffee and soda available throughout the day*
- Freshly baked cookies every afternoon*