

uCertify

Course Outline

IT Specialist JavaScript



09 May 2024

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3. Exercises, Quizzes, Flashcards & Glossary
Number of Questions
4. Expert Instructor-Led Training
5. ADA Compliant & JAWS Compatible Platform
6. State of the Art Educator Tools
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8. Chapter & Lessons

Syllabus

Chapter 1: Introduction to JavaScript

Chapter 2: JavaScript Basics

Chapter 3: Controlling Flow

Chapter 4: Arrays

Chapter 5: Functions

Chapter 6: Objects

Chapter 7: The Browser Object Model

Chapter 8: Document Object Model

Chapter 9: HTML Forms

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Videos and How To

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Here's what you get

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1. Course Objective

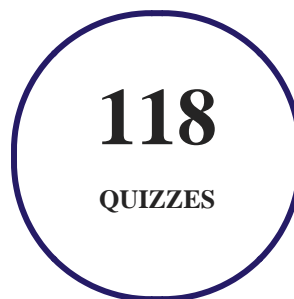
JavaScript is an event-based, client-side, object-oriented scripting language that you can use to add dynamic interactivity to your web pages. Get the live experience of coding in JavaScript with uCertify's course IT Specialist JavaScript. The course contains interactive lessons, practice tests, knowledge checks, quizzes, flashcards, glossaries, and live labs to comprehensively cover the ITSPC exam objectives. It equips the candidates with all the skills required to pass the ITSPC JavaScript exam.

2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

3. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.



4. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



5. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.



6. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

7. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

8. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

9. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
 1. Best Postsecondary Learning Solution
- **2015**
 1. Best Education Solution

2. Best Virtual Learning Solution
3. Best Student Assessment Solution
4. Best Postsecondary Learning Solution
5. Best Career and Workforce Readiness Solution
6. Best Instructional Solution in Other Curriculum Areas
7. Best Corporate Learning/Workforce Development Solution

- **2016**

1. Best Virtual Learning Solution
2. Best Education Cloud-based Solution
3. Best College and Career Readiness Solution
4. Best Corporate / Workforce Learning Solution
5. Best Postsecondary Learning Content Solution
6. Best Postsecondary LMS or Learning Platform
7. Best Learning Relationship Management Solution

- **2017**

1. Best Overall Education Solution
2. Best Student Assessment Solution
3. Best Corporate/Workforce Learning Solution
4. Best Higher Education LMS or Learning Platform

- **2018**

1. Best Higher Education LMS or Learning Platform
2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**

1. Best Virtual Learning Solution
2. Best Content Authoring Development or Curation Solution
3. Best Higher Education Learning Management Solution (LMS)

- **2020**

1. Best College and Career Readiness Solution
2. Best Cross-Curricular Solution
3. Best Virtual Learning Solution

10. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Introduction to JavaScript

- About JavaScript
- JavaScript Getting Started
- Comments in JavaScript
- Your First JavaScript Code
- Exercise

Chapter 2: JavaScript Basics

- JavaScript Variables

- JavaScript Data Types
- JavaScript Operators
- JavaScript Operators Precedence
- JavaScript Alerts and Prompts
- JavaScript Keywords and Reserved Words
- Scripts
- Constants
- JavaScript Debugging
- Exercise

Chapter 3: Controlling Flow

- Decision Making
- Loops
- Exercise

Chapter 4: Arrays

- Types of Arrays
- Declaring and Initialization of an Array

- Array Methods
- Sorting and Searching in Array
- Access an Element of an Array
- Exercise

Chapter 5: Functions

- Function Definition
- Calling a Function
- Nested Functions
- Built-In Functions
- The this Keyword
- Exercise

Chapter 6: Objects

- Object-Oriented Language
- Creating Objects
- The String Object
- The Date Object
- The forEach() Method

- Exercise

Chapter 7: The Browser Object Model

- The Browser Hierarchy
- Window open() and close() Method
- JavaScript Window Screen
- Exercise

Chapter 8: Document Object Model

- DOM Levels
- The DOM as a Tree
- Retrieving Elements
- DOM Events
- JavaScript innerHTML and document.write()
- Exercise

Chapter 9: HTML Forms

- Overview of Form Elements
- Form Objects

- Working with Form Information
- Validation with JavaScript
- Form Submission Process
- Exercise

Chapter 10: Errors and Exceptions

- Error Handling and Exceptions
- Types of Errors
- try, catch and finally Statements
- throw Statement
- Exercise

Videos and How To

uCertify course includes videos to help understand concepts. It also includes How Tos that help learners in accomplishing certain tasks.

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VIDEOS

03:12

HOURS

11. Practice Test

Here's what you get

40

PRE-ASSESSMENTS
QUESTIONS

2

FULL LENGTH TESTS

45

POST-ASSESSMENTS
QUESTIONS

Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

12. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations

- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

Lab Tasks

Introduction to JavaScript

- Using Single-Line and Multi-Line Comments
- Running a JavaScript Code
- Understanding basic concepts of JavaScript

JavaScript Basics

- Using Strict Mode
- Using Variable Scopes
- Using arithmetic operators
- Using Data Types
- Using Operators
- Using JavaScript Alerts and Prompts
- Using the alert() method
- Using the prompt() method
- Using the confirm() method
- Using Internal JavaScript
- Using noscript
- Using External JavaScript
- Using Constants
- Using the Debugger Keyword
- Setting Breakpoints in JavaScript
- Getting the Console Log Using JavaScript

Controlling Flow

- Using the Decision-Making Statements
- Using the if statement
- Working with the nested if statements
- Using the if-else statement
- Using the continue Statement
- Using the break Statement
- Using the while Loop
- Using the for Loop
- Using the do-while Loop
- Using the for loop
- Understanding the while loop
- Working with the do-while loop

Arrays

- Using Multi-Dimensional Arrays
- Using the Array Methods
- Sorting and Searching in Array
- Using the indexOf() method
- Using the sort() method
- Using the array.length() method

Functions

- Knowing the Difference between Pass By Value and Pass By Reference
- Calling a Function
- Calling a function
- Using Nested Functions
- Using Different Mathematical Functions in JavaScript
- Using the toFixed() Function
- Using the isNaN() Function
- Using the parseInt() and parseFloat() Functions
- Using the isNaN() function

- Using the `math.ceil()` method
- Using the `this` Keyword

Objects

- Creating Objects
- Working with the objects
- Using the String Object
- Formatting strings
- Using the `concat()` method - Part I
- Using the `concat()` method - Part II
- Using the Date Object
- Calculating the Difference Between Two Dates
- Using Localization
- Using the Time Function in JavaScript
- Using the Date object
- Using the `forEach()` Method
- Using the `forEach()` method - Part I
- Using `forEach()` method - Part II

The Browser Object Model

- Using the Window `open()` and `close()` Methods
- Using the JavaScript Window Screen

Document Object Model

- Retrieving Elements by Tag Name
- Retrieving Elements
- Using the `Onfocus` and `Onblur` Events
- Using the DOM Event
- Understanding DOM events - Part I
- Understanding DOM events - Part II
- Understanding DOM events - Part III
- Using JavaScript `innerHTML` and `document.write()`
- Using `innerHTML` property

HTML Forms

- Creating a Form
- Using the Select Object
- Using the Radio and Check Box Objects
- Using a Text Box Object
- Using the Password Object
- Using the POST Method
- Retrieving Form Values from Textbox
- Retrieving Form Values from a Dropdown
- Working with form Information
- Using Validation with JavaScript
- Validating a form
- Using the GET Method
- Using the onsubmit Event

Errors and Exceptions

- Using try and catch in JavaScript
- Knowing Syntax Errors
- Knowing Runtime Errors
- Using the finally Statement
- Working with errors and exceptions
- Using the throw Statement

Here's what you get

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LIVE LABS

61

VIDEO TUTORIALS

01:50

HOURS

13. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

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