

# uCertify

## Course Outline

### LPI Web Development (030-100)



21 May 2024

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2. Pre-Assessment
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
7. Award Winning Learning Platform (LMS)
8. Chapter & Lessons

Syllabus

Chapter 1: Software Development and Web Technologies

Chapter 2: HTML Document Markup

Chapter 3: CSS Content Styling

Chapter 4: JavaScript Programming

Chapter 5: NodeJS Server Programming

Videos and How To

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Here's what you get

Features

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Here's what you get

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## 1. Course Objective

The LPI Web Development Essentials course is designed to equip you with essential skills in web development. This course is ideal for beginners looking to delve into the world of web development and expand their IT knowledge. Throughout this course, you will explore fundamental concepts such as software development basics, web application architecture, JavaScript programming, and more. By the end of the course, you will have a solid understanding of how websites function, interact with users, and the crucial role of JavaScript in creating dynamic web experiences.

## 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.

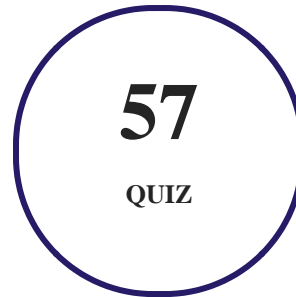
## 3. Exercises

There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.



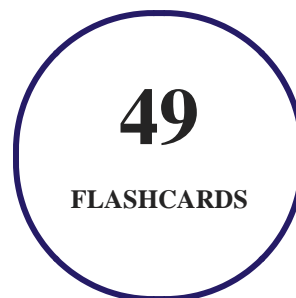
## 4. Quiz

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.



## 5. 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.



## 6. 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.



## 7. 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.

## 8. 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.

## 9. 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.

## 10. 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

## 11. 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: Software Development and Web Technologies

- Software Development Basic
- Web Application Architecture
- HTTP Basics

## Chapter 2: HTML Document Markup

- HTML Document Anatomy
- HTML Semantics and Document Hierarchy
- HTML References and Embedded Resources
- HTML Forms

## Chapter 3: CSS Content Styling

- CSS Basics
- CSS Selectors and Style Application
- CSS Styling
- CSS Box Model and Layout

## Chapter 4: JavaScript Programming

- JavaScript Execution and Syntax
- JavaScript Data Structures
- JavaScript Control Structures
- JavaScript Functions
- JavaScript Manipulation of Website Content and Styling



## Chapter 5: NodeJS Server Programming

- NodeJS Basics
- NodeJS Express Basics
- NodeJS Express Methods
- SQL Basics

## 12. Practice Test

### Here's what you get

**30**

PRE-ASSESSMENTS  
QUESTIONS

**2**

FULL LENGTH TESTS

**40**

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.

## 13. 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

### **Software Development and Web Technologies**

- Calculating the Area and Volume of Geographical Shapes Using C
- Calculating the Area and Volume of Geographical Shapes Using C++

### **HTML Document Markup**

- Creating a Basic HTML Page
- Using Paragraphs and Headings in HTML
- Formatting Text in HTML

- Creating Hyperlinks
- Creating an HTML Form

### **CSS Content Styling**

- Implementing Inline Styles
- Creating an External Style Sheet
- Implementing a Class
- Using CSS IDs
- Using Inline Flow vs. Block Flow in CSS and Float Properties

### **JavaScript Programming**

- Using Special Characters
- Using Primitive Data Types
- Using Arithmetic Operators
- Using Logical Operators
- Using Comparison Operators
- Using the break Statement
- Using the switch Statement
- Using Loops
- Using the continue Statement
- Using an Event Handler for Buttons

### **NodeJS Server Programming**

- Handling Incoming Requests
- Creating an Express Application
- Creating the Structure of a Table

**Here's what you get**

**25**

LIVE LABS

**21**

VIDEO TUTORIALS

**34**

MINUTES

## 14. 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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