
Web Development Essentials 1.0

(Exam code 030-100)

Overview:

Modern software applications are commonly developed for the Web. The Linux Professional Institute (LPI) Web Development Essentials program supports your first steps in software development. It includes Learning Materials suitable for both training and self-study. Upon passing the Web Development Essentials exam, you receive a certificate to prove your skills.

The program objectives cover the most important aspects of Web Development. They are specifically designed to include everything needed to implement simple web applications. This makes Web Development Essentials the perfect choice for practical courses and training. In self-studies, candidates find everything they need to achieve immediate success in implementing their first projects.

Prerequisites

None, anyone can take the test

Requirements:

Passing the Linux Essentials 010 exam. The Linux Essentials exam contains 40 questions and must be completed within 60 minutes.

To receive the certificate the candidate must:

- Have an understanding of the principles of software development, HTML, CSS, JavaScript, Node.js, and SQL.

Objectives

1. Software Development and Web Technologies
 - 1.1 031.1 Software Development Basics (weight: 1)
 - 1.2 031.2 Web Application Architecture (weight: 2)
 - 1.3 031.3 HTTP Basics (weight: 3)
2. HTML Document Markup
 - 2.1 032.1 HTML Document Anatomy (weight: 2)
 - 2.2 032.2 HTML Semantics and Document Hierarchy (weight: 2)
 - 2.3 032.3 HTML References and Embedded Resources (weight: 2)
 - 2.4 032.4 HTML Forms (weight: 2)
3. CSS Content Styling
 - 3.1 033.1 CSS Basics (weight: 1)
 - 3.2 033.2 CSS Selectors and Style Application (weight: 3)
 - 3.3 033.3 CSS Styling (weight: 2)
 - 3.4 033.4 CSS Box Model and Layout (weight: 2)
4. JavaScript Programming
 - 4.1 034.1 JavaScript Execution and Syntax (weight: 1)
 - 4.2 034.2 JavaScript Data Structures (weight: 3)
 - 4.3 034.3 JavaScript Control Structures and Functions (weight: 4)
 - 4.4 034.4 JavaScript Manipulation of Website Content and Styling (weight: 2)
5. NodeJS Server Programming
 - 5.1 035.1 NodeJS Basics (weight: 1)
 - 5.2 035.2 NodeJS Express Basics (weight: 4)
 - 5.3 035.3 SQL Basics (weight: 3)