

# uCertify

## Course Outline

### PHP and MySQL Web Development



07 Jul 2024

1. Course Objective
2. Expert Instructor-Led Training
3. ADA Compliant & JAWS Compatible Platform
4. State of the Art Educator Tools
5. Award Winning Learning Platform (LMS)
6. Live labs

Lab Tasks

Here's what you get

## 1. Course Objective

Gain skills and expertise in Web development with PHP and MySQL Web Development performance-based labs. Performance-based labs simulate real-world, hardware, software & command line interface environments and can be mapped to any text-book, course & training. The labs offer hands-on experience on the topics like sorting and retrieving data; designing and creating Web database; administrating and programming advanced MySQL; generating images; social media integration and authentication; building a shopping cart; and many more. The labs covers all the concepts related to Web development and help you become a Web developer.

## 2. 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.

## 3. 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.

## 4. 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.

## 5. 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

## 6. 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

### PHP Crash Course

- Creating a Form
- Creating a Dynamic Form
- Declaring Constants
- Using Arithmetic Operators
- Concatenating Strings
- Using the Ternary Operator
- Using the Type Operator
- Creating an Output Form
- Using the if Statement
- Using the if-else Statement
- Using the switch Statement
- Using the while Loop
- Using the for Loop
- Using the foreach Loop
- Using the do-while Loop

### Storing and Retrieving Data

- Opening and Reading a File

### Using Arrays

- Creating an Array
- Inserting and Retrieving Values from an Array Using the foreach Loop
- Creating a Multi-dimensional Array
- Sorting an Array

- Generating a Random Value
- Loading Arrays from a File

### **String Manipulation and Regular Expressions**

- Splitting Strings with Regular Expressions

### **Reusing Code and Writing Functions**

- Reusing the Code
- Creating a Function
- Using the Pass by Reference
- Reversing a String Using Recursion and Iteration

### **Object-Oriented PHP**

- Creating an Instance of a Class
- Implementing Function Overriding
- Implementing Static Methods
- Generating a Fizzbuzz Sequence

### **Error and Exception Handling**

- Creating a User-Defined Exception Class
- Implementing Error Handling

### **Creating Your Web Database**

- Creating a Table

### **Working with Your MySQL Database**

- Inserting Values into a Table
- Retrieving All the Attribute Values Using an Asterisk
- Retrieving the Data from Multiple Tables
- Retrieving the Data in Sorted Order
- Using Aggregate Functions
- Using the GROUP BY and HAVING Clauses

- Retrieving the Limited Number of Rows from the Table
- Using the NOT IN Operator
- Updating a Table
- Modifying a Table Definition
- Dropping a Table

### **Advanced MySQL Programming**

- Declaring a Basic Stored Procedure
- Declaring a Stored Function
- Using Cursors and Loops
- Creating a Trigger

### **Implementing Authentication Methods with PHP**

- Implementing a Simple Authentication Mechanism

### **Interacting with the File System and the Server**

- Creating an HTML Form for File Upload
- Displaying the Uploaded Files
- Displaying the Directory List of the Uploaded Files

### **Using Network and Protocol Functions**

- Verifying the URL and Email Address

### **Managing the Date and Time**

- Calculating Age

### **Generating Images**

- Creating a Simple Line Graph

### **Using Session Control in PHP**

- Creating a Simple Session



## Integrating JavaScript and PHP

- Creating Functions Using jQuery

## Other Useful Features

- Listing the Extensions Available to PHP

## Debugging and Logging


- Declaring a Custom Error Handler

## Here's what you get




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