Course Out

Intro to Programming Using



28 Mar 2024

Contents

1. Course Objective
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: HTML Fundamentals

   Chapter 2: Getting Started with HTML

   Chapter 3: HTML Links

   Chapter 4: Formatting Text

   Chapter 5: CSS Fundamentals

   Chapter 6: CSS Syntax and Selectors

   Chapter 7: Formatting Using CSS

   Chapter 8: Using Images

   Chapter 9: Creating Tables

   Chapter 10: Building Forms

   Chapter 11: Multimedia

   Chapter 12: Positioning Elements Using CSS

   Chapter 13: Responsive Web Design

   Videos and How To
9. Practice Test

   Here's what you get

Features

10. Live labs

    Lab Tasks

    Here's what you get

11. Post-Assessment

1. Course Objective

Prepare for the MTA 98-383 exam with the Introduction to Programming Using HTML and CSS course and lab. The lab provides a hands-on learning experience in a safe, online environment. The Microsoft study guide completely covers the MTA 98-383 exam objectives and provides the skills required in programming with HTML & CSS; CSS syntax and selectors; creating tables, multimedia, building forms; positioning elements using CSS, responsive web design, and more.

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.

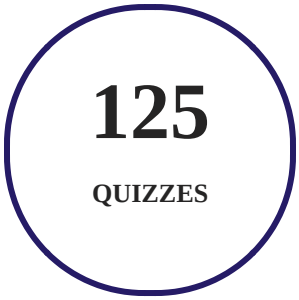
3. Exercises

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.



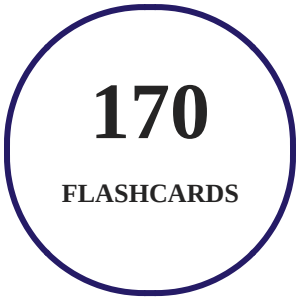
4. Quizzes

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.



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: HTML Fundamentals

- Introduction to HTML
- HTML5
- Creating your First HTML Page

- Introduction to Tags
- Introduction to Elements
- Introduction to Attributes
- HTML Scripts
- Summary

Chapter 2: Getting Started with HTML

- Structure of an HTML Program
- Headings in HTML
- Paragraphs in HTML
- Lists in HTML
- Comments
- Metadata Elements Used in HTML
- Summary

Chapter 3: HTML Links

- The Link Tag
- Relative and Absolute Path

- Linking with the Same Document
- Linking Other Documents on the Web
- Summary

Chapter 4: Formatting Text

- Structural Elements
- The Thematic Break
- The Line Break
- Summary

Chapter 5: CSS Fundamentals

- Introduction to CSS
- New Features Introduced in CSS3
- Types of CSS
- Summary

Chapter 6: CSS Syntax and Selectors

- CSS Syntax
- CSS Selectors

- Browser Support
- Summary

Chapter 7: Formatting Using CSS

- The Box Model
- Text Formatting
- Font Properties
- Border Properties
- Adding Comments in CSS
- Summary

Chapter 8: Using Images

- Introduction
- The <img> Tag
- Adding Alternative Text to Images
- Adjusting Image Size
- Using Images as Links
- Using Images as Background
- Using Images as Bullets

- Summary

Chapter 9: Creating Tables

- HTML Table Tags
- Adding Table Border
- Setting Table Width and Height
- Adding Color to a Table
- Cell Padding and Spacing
- Aligning Content of a Table
- Formatting Table using Rowspan and Colspan
- Advanced Tags
- Summary

Chapter 10: Building Forms

- The <form> Tag
- Form Elements
- Input Types and Restrictions
- Summary

Chapter 11: Multimedia

- The Video Element
- The Audio Element
- The Inline Frame Element
- The Canvas Element
- The SVG Element
- Summary

Chapter 12: Positioning Elements Using CSS

- The Position Property
- The Float Property
- Overlapping Elements
- The Overflow Property
- Inline vs. Block
- The Visibility Property
- Summary

Chapter 13: Responsive Web Design

- What is Responsive Web Design?
- Measuring Units
- Percentage vs. Pixel
- Custom Images
- Media Queries
- Framework and Template
- Summary

Videos and How To

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

98	03:06
VIDEOS	HOURS

12. Practice Test

Here's what you get

40	2	40
PRE-ASSESSMENTS QUESTIONS	FULL LENGTH TESTS	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

HTML Fundamentals

- Creating an HTML Page
- Adding a Script to an HTML Document
- Calling an External Script
- Using the <noscript> Element in HTML

Getting Started with HTML

- Using Headings in HTML
- Using Paragraphs in HTML
- Using an Ordered List in HTML
- Using an Ordered List to Start with a Specific Number
- Using an Unordered List in HTML
- Using an Unordered List to Display Different Bullets
- Using the Description List
- Using a Nested List
- Using Comments in an HTML File
- Using Metadata Elements in HTML
- Defining Character Encoding in HTML
- Using Keywords and Description for Search Engines

HTML Links

- Using the Target Attributes of Links
- Creating a Bookmark
- Linking with the Same Document

Formatting Text

- Creating Structural Elements in HTML

- Using the Thematic Break
- Using the Line Break

CSS Fundamentals

- Creating Inline CSS Styles
- Creating Internal CSS Styles
- Using External Style Sheets
- Importing an External Style Sheet

CSS Syntax and Selectors

- Using the Element Selector
- Using the Class Selector
- Using the Class Selector for the Specific HTML Element
- Using an Id Selector
- Using the Group Selector
- Using the Universal Selector
- Using the Pseudo Classes

Formatting Using CSS

- Using CSS Dimension Property
- Using the Padding Longhand Property
- Using the Padding Shorthand Property
- Using the Border Longhand Property
- Using the Border Shorthand Property
- Using the Margin Longhand Property
- Using the Margin Shorthand Property
- Using the Text-Color Property
- Using the Text-Align Property
- Using the Text-Decoration Property
- Using the Text-Indentation Property
- Using the Text-Transform Property
- Understanding Text Spacing
- Using the Text-Shadow Property

- Using the Font-Style Property
- Using the Font-Variant Property
- Using the Font-Weight Property
- Using the Font-Size Property
- Using the Font-Family Property
- Using the Font Property
- Using the Border-Style Property
- Using the Border-Width Property
- Using the Border-Color Property
- Using the Border-Radius Property
- Adding Comments in CSS

Using Images

- Adding Image to a Webpage
- Adding Alternative Text to Images
- Adjusting Image Size
- Using Images as Background, Links, and Bullets

Creating Tables

- Using the HTML Table Tag
- Applying Table Border and Cell Padding to the Table
- Formatting Table using Rowspan and Colspan
- Using the <thead>, <tbody>, and <tfoot> Tags

Building Forms

- Creating a Form using Form Elements
- Using the Input Type File and Submit
- Using the Inline Frame Element

Multimedia

- Using the Video Element
- Using the <canvas> Element

- Using the SVG Element

Positioning Elements Using CSS

- Using the Absolute Position Property
- Using the Float Property
- Using Overlapping Elements
- Using the Overflow Property
- Using the Overflow-x and Overflow-y Property
- Using the Inline and Block Values for the Display Property

Responsive Web Design

- Using the Measuring Units
- Using the Relative Length Property
- Displaying the Difference Between Percentage and Pixel
- Using Media Query

Here's what you get

82	82	02:08
LIVE LABS	VIDEO TUTORIALS	HOURS

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.