uCertify

Course Outline

MTA: Software Development Fundamentals (98-361)

1. Course Objective

2. Pre-Assessment

3. Expert Instructor-Led Training

4. ADA Compliant & JAWS Compatible Platform

5. State of the Art Educator Tools

6. Award Winning Learning Platform (LMS)

7. Practice Test

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9. Post-Assessment

1. 📘 Course Objective

Gain hands-on experience to pass the MTA 98-361 exam with the MTA Software Development Fundamentals course and lab. Lab simulates real-world, hardware, software, and command-line interface environments and can be mapped to any textbook, course, or training. The course and lab comprehensively cover the 98-361 exam objectives and help you understand core programming, object-oriented programming, general software development, web applications, desktop applications, and databases.

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. 👨‍🏫 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.

4. ⊗ 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.

5. 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.

6. 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

7. Practice Test

Here's what you get

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PRE-ASSESSMENTS QUESTIONS	POST-ASSESSMENTS QUESTIONS

Features

uCertify provides video training courses that contain videos and test set questions based on the exam. These courses are interactive and engaging and the learners can view the content at their own pace, in their own time, and on any device. Learners can easily track the engagement levels so they immediately know which course components are easy to understand and which are more difficult. Test set in the courses closely follow the exam objectives and are designed to simulate real exam conditions.

Each pre and post assessment comes with interactive questions which help users in better understanding of the subject matter.

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.

8. 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

Understanding general software development

- Getting Started with Visual Studio
- Inserting Elements into Arrays
- Deleting an Element from an Array
- Searching an Element in an Array
- Implementing a Single Linked List
- Using Bubble Sort
- Using a Queue

Understanding core programming

- Using the if Statement
- Using the if-else Statement
- Using the switch Statement
- Using the Ternary Operator
- Using the while Loop
- Using the do-while Loop
- Using the for Loop
- Using the foreach Loop
- Using the Recursive Method

- Using Error Handling

Understanding object-oriented programming

- Creating an Object
- Creating a Class
- Creating an Abstract Class
- Using Polymorphism
- Using Encapsulation

Understanding web applications

- Creating an HTML Page
- Using a Cascading Style Sheet
- Creating an ASP.NET Web Form
- Creating a Web Deployment Package
- Using Properties
- Creating a Web Service

Understanding desktop applications

- Creating a Windows Form
- Creating a Windows Store App
- Using static Delegates
- Finding a List and Configuring a Windows Service

Understanding databases

- Creating an ER diagram
- Creating a Table
- Inserting Values into a Table
- Updating a Table
- Deleting a Row from a Table
- Retrieving the Data from a Table
- Retrieving Distinct Rows from a Table
- Retrieving the Data Using the AND Operator

- Retrieving the Sorted Data Using the ORDER BY Clause
- Creating a Stored Procedure
- Connecting to a Database

Here's what you get

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LIVE LABS	**VIDEO TUTORIALS**	**HOURS**

9. 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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