



# Course Outline

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## **MTA: Software Development Fundamentals Labs**



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## 1. Course Objective

Start your prep for MTA Software Development Fundamentals: 98-361 exam with 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 cover all the objectives covered in the 98-361 exam and provide the understanding of core programming, object-oriented programming, general software development, web applications, desktop applications, and databases.

## 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 assignments. 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 5 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

## 6. Performance Based Labs

uCertify's performance-based labs are Live Labs. Learn the real world skills using Live Labs. uCertify Labs are cloud-based, device-enabled and can be easily integrated with an LMS. Features of uCertify labs:

- Provide hands-on experience in a safe, online environment
- Labs simulate real world, hardware, software & CLI environment
- Flexible and inexpensive alternative to physical Labs
- Comes with well-organized component library for every task
- Highly interactive - learn by doing
- Explanations and remediation available
- Videos on how to perform

### Lab Tasks

- Getting started with Visual Studio
- Using the if statement
- Using the if-else statement
- Using the switch statement
- Using ternary operator
- Using the While loop
- Using the do-While loop
- Using the for loop
- Using the foreach loop
- Using recursive method
- Using error handling
- Creating an object
- Creating a class
- Creating an abstract class
- Using polymorphism
- Using encapsulation
- Inserting elements into arrays
- Deleting element from an array
- Searching an element in an array
- Implementing single link list
- Using bubble sort
- Using queue
- Creating HTML page
- Using cascading style sheet
- Creating ASP.NET web forms
- Creating a Web Deployment package
- Deploying Web Deployment package in IIS Server
- Creating web service
- Creating a windows form
- Creating Windows Store app
- Creating packages
- Finding a list of Windows services
- Creating ER diagram
- Creating a table
- Inserting values into table

- Updating the table
- Deleting the rows from the table
- Retrieving the data from the table
- Retrieving the distinct rows from the table
- Retrieving the data using AND operator
- Retrieving the sorted data using ORDER BY clause
- Creating stored procedure
- Connecting to database

## Here's what you get



Have Any Query? We Are Happy To Help!

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