

uCertify

Course Outline

Visual Studio 2019 In Depth



26 Apr 2025

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2. Exercises, Quizzes, Flashcards & Glossary
Number of Questions
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. Chapter & Lessons
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Chapter 3: Digging into the Visual Studio 2019 IDE
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Here's what you get

1. 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.

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. 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: Introduction

Chapter 2: Getting Started with Visual Studio 2019

- Why Visual Studio 2019?
- Requirements and prerequisites
- Visual Studio 2019 Editions
- Installation options
- Choose what to install
- Launching Visual Studio 2019
- Conclusion

Chapter 3: Digging into the Visual Studio 2019 IDE

- The standard IDE Windows
- Comparing desktop, mobile and web IDEs
- Visual Studio 2019 Extensions
- IDE Productivity Power Tools
- Conclusion

Chapter 4: Visual Studio 2019 IntelliSense

- IntelliSense
- Template IntelliSense Improvements in C++
- Artificial Intelligence (AI)
- IntelliCode Extension for Visual Studio 2019
- Advantages of using IntelliCode
- Conclusion

Chapter 5: Latest Features and Changes in C#8.0

- The C# language
- Variables and constants
- Arrays and collections
- Enums
- Selection statements
- Iteration statements
- New features in C# 8.0
- Conclusion

Chapter 6: What's New in .Net Core 3.0

- .NET Core 3.0
- Installing .NET Core 3.0
- The .NET framework 4.8
- The .NET platform dependent intrinsics
- Local .NET tools
- XAML Islands
- Cryptographic key import/export
- MSIX deployment for desktop apps
- Open-source WPF, Windows Forms, and WinUI
- Conclusion

Chapter 7: Built-in Tools

- Visual Studio Live Share
- Profiling tools
- Solution Explorer
- Conclusion

Chapter 8: Debugging Tools

- Code Cleanup
- Search bar on debugging windows
- Debugging applications
- Visual Studio 2019 remote debugging tools
- Code generation tools
- Conclusion

Chapter 9: Testing Tools

- Unit testing in Visual Studio 2019
- Coded UI tests
- Selenium
- Appium
- Apache JMeter
- Blazemeter
- Akamai CloudTest
- Conclusion

Chapter 10: ASP.NET Tools

- Web frameworks

- .NET Core 3
- Blazor
- ASP.NET Core Identity Provider for Amazon
- Web API
- Visual Studio Kubernetes Tools
- Conclusion

Chapter 11: Mobile Tools

- JSON
- Xamarin
- DevExtreme
- Emulators and Simulators
- Conclusion

Chapter 12: Azure Tools

- Internet of Things (IoTs)
- SAP on Azure
- Artificial intelligence (AI)

- Azure DevOps
- Azure Blockchain Service
- Conclusion

Chapter 13: IDE Extensions

- Visual Studio 2019 Extensions
- Preview label for Visual Studio Extensions
- GitHub
- Pull Requests for Visual Studio
- Microsoft Visual Studio Live Share
- Arduino IDE for Visual Studio
- Redgate SQL Change Automation Core
- Conclusion

Chapter 14: ASP.NET Extensions

- Markup language
- Markdown
- Markdown Editor
- Web Compiler

- Web Accessibility Checker
- ASP.NET core vs Code Extension Pack
- Conclusion

Chapter 15: Mobile Extensions

- SQLite
- NuGet Package Manager
- JSON Viewer
- Conclusion

Chapter 16: Azure DevOps Extensions

- Azure DevOps
- Azure Artifacts
- Code Search
- Other noteworthy Azure DevOps extensions
- Conclusion

Here's what you get

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.

8. Performance Based Labs

uCertify's performance-based labs are simulators that provides virtual environment. Labs deliver hands on experience with minimal risk and thus replace expensive physical 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

Here's what you get

You can't stay away! Get

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