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App Development with Swift

Associate

Swift. The language for first-time coders and full-time developers.

App Development with Swift Associate certification

Accelerate your students' proficiency with Swift and SwiftUI to help them meet industry demand for app developers. Swift is a powerful programming language for building many of the world's most popular apps. With SwiftUI, developers have a way to build user interfaces for apps across all Apple platforms—with surprisingly little code.

Earning an App Development with Swift certification recognizes foundational knowledge of Swift, SwiftUI, and Xcode to prepare students for their future careers. Students who pass the certification exam will earn a digital badge they can place in a resume, portfolio, email, or share in professional networks.

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Help Students Get Certified in Swift

Build Knowledge of Swift and SwiftUI

- Learn key computing concepts, building a solid foundation in programming with Swift and SwiftUI
- Explore the impact of computing and apps on society, economies, and cultures while exploring iOS app development

Build Knowledge of App Development Basics

- Learn the app design process: brainstorming, planning, prototyping, and evaluating an app of their own design
- Learn how to structure code using functions to encapsulate repetitive tasks, use if/else statements to represent decisions, and explore how Swift and SwiftUI uses types to distinguish different kinds of data
- Explore how to create custom types using structs, group large quantities of items into arrays, and process them using loops

Develop in Swift Tutorials

Develop in Swift Tutorials are a great first step toward a career in app development using Xcode, Swift, and SwiftUI. They are great for anyone who is curious about learning how to develop apps for Apple platforms—no prior coding experience required.

Learn more >

Get Started Today

To purchase an App Development with Swift Associate certification campus license or to learn more about how to access learning resources and certification materials, please contact a Certiport territory manager (In the U.S.), a Certiport partner (Outside the U.S.) or visit us at 1-888-222-7890 // www.certiport.com/apple

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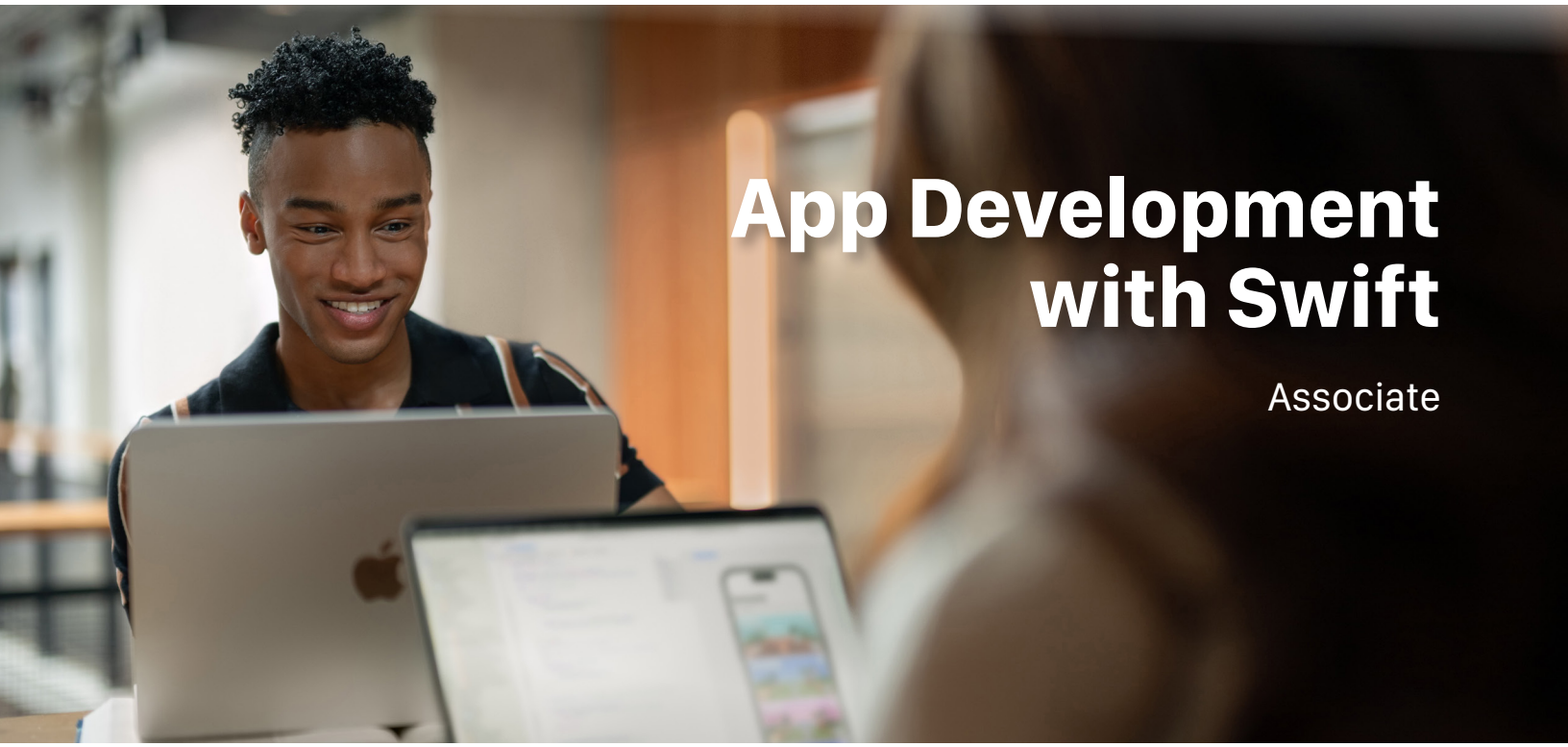

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Objective Domains

Earning the App Development with Swift Associate certification demonstrates knowledge of key computing concepts and a solid foundation in programming with Swift and SwiftUI. They'll demonstrate knowledge of the impact of computing and apps on society, economies, and cultures while exploring app development.

Planning and Design

1.1. Summarize the design cycle

- 1.1.1. Brainstorm, plan, prototype, evaluate

1.2. Summarize how sensitive data can be protected and compromised

- 1.2.1. Sharing personal and application information
- 1.2.2. Security challenges
- 1.2.3. Legal, ethical and socioeconomic impacts

1.3. Assess a visual design with accessibility in mind

XCode Project Navigation

2.1. Differentiate between basic file types

2.2. After an asset has been imported, recognize available assets and how they are used in a project

2.3. Import and/or use an asset

2.4. Select the appropriate actions to configure different areas of the user interface

Swift Language Usage

3.1. Write, call and/or evaluate the execution of functions

- 3.1.1. Evaluate the use of argument labels, parameters and returns

3.2. Calculate the results when using various operators

3.3. Create and evaluate structures

- 3.3.1. Declare the properties of a structure
- 3.3.2. Initialize the properties of a structure
- 3.3.3. Define methods
- 3.3.4. Create an instance of a structure
- 3.3.5. Use an instance of a structure

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Swift Language Usage (Continued)

3.4. Create and manipulate arrays

- 3.4.1. Declare and/or initialize an array with values
- 3.4.2. Identify and/or modify an array element using its index
- 3.4.3. Use and/or evaluate array properties and/or methods

3.5. Demonstrate how to control the flow of execution

- 3.5.1. Create, analyze and predict loop structures and their results
- 3.5.2. Create and interpret the outcome of conditional statements

3.6. Declare and/or evaluate constants and variables of different data types

- 3.6.1. Differentiate between constants and variables
- 3.6.2. Apply type inference
- 3.6.3. Use explicit typing

3.7. Use the appropriate naming syntax

- 3.7.1. Use appropriate camel casing
- 3.7.2. Apply Swift identifier rules

View Building with SwiftUI

4.1. Differentiate between imperative and declarative programming

4.2. Create Content Views using Text, Image, Shape, and/or Color

4.3. Implement Modifiers including, but not limited to, .padding, .background, .frame, .foregroundColor, .font, and .resizable

4.4. Create Container Views (HStack, VStack, ZStack, Spacer) and arrange Views inside of Stack Views

4.5. Explain the View hierarchy produced by a program

4.6. Create and/or apply Interactive Views including, but not limited to, Button, TextField, Slider, and Toggle

4.7. Use @State Property Wrapper to control the appearance of a View

Debugging

5.1. Differentiate between syntax and run-time errors when building and running an app

5.2. Interpret error messages

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