

# uCertify

# Course Outline

## Flutter for Beginners



04 Aug 2025

1. Exercises, Quizzes, Flashcards & Glossary

Number of Questions

2. Expert Instructor-Led Training

3. ADA Compliant & JAWS Compatible Platform

4. State of the Art Educator Tools

5. Award Winning Learning Platform (LMS)

6. Chapter & Lessons

Syllabus

Chapter 1: Introduction

Chapter 2: What Is Flutter?

Chapter 3: Setting Up Your Computer for Mobile App Development

Chapter 4: “Hello” from Flutter

Chapter 5: Hello Again

Chapter 6: Making Things Happen

Chapter 7: Laying Things Out

Chapter 8: Interacting with the User

Chapter 9: Navigation, Lists, and Other Goodies

Chapter 10: Moving Right Along ...

Chapter 11: Ten Ways to Avoid Mistakes

Chapter 12: Ten Ways to Enhance Your App Development Career

Chapter 13: Ten Lessons about Flutter App Development

Chapter 14: Doris’s Dating App

Videos and How To

## 1. 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

## 2. 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.

## 3. 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.

## 4. 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

## 5. 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

- How to Use This Course
- Conventions Used in This Course
- What You Don't Have to Read
- Foolish Assumptions
- How This Course Is Organized

- Icons Used in This Course

## Chapter 2: What Is Flutter?

- Hardware and Software (Things You May Already Know)
- Where Does Flutter Fit In?
- Enough New Terminology! What's Next?

## Chapter 3: Setting Up Your Computer for Mobile App Development

- The Stuff You Need
- What to Do
- Dealing with the Devil's Details
- Divisiveness Among Devices
- Using Android Studio
- Running This Course's Sample Programs
- Were These Setup Steps Fun or What?

## Chapter 4: "Hello" from Flutter

- First Things First
- Classes, Objects, and Widgets
- Making Things Look Nicer

- Hey, Wait a Minute ...

## Chapter 5: Hello Again

- Creating and Using a Function
- Programming in Dart: The Small Stuff
- Variations on a Theme from Die Flutter Mouse
- More Fun to Come!

## Chapter 6: Making Things Happen

- Let's All Press a Floating Action Button
- Enhancing Your App
- Whew!

## Chapter 7: Laying Things Out

- The Big Picture
- Nesting Rows and Columns
- More Levels of Nesting
- Using the Expanded Widget
- How Big Is My Device?

## Chapter 8: Interacting with the User

- A Simple Switch
- Wait For It!
- How Much Do You Love Flutter?
- Dealing with Text Fields
- Creating Radio Buttons
- Creating a Dropdown Button
- Onward and Upward

## Chapter 9: Navigation, Lists, and Other Goodies

- Extending a Dart Class
- From One Page to Another
- Passing Data from Source to Destination
- Passing Data Back to the Source
- Passing Data in Both Directions
- Creating Named Routes
- Creating a List
- Fetching Data from the Internet



- What's Next?

## Chapter 10: Moving Right Along ...

- Setting the Stage for Flutter Animation
- Moving Along a Straight Line
- Bouncing Around
- Animating Size and Color Changes
- Moving Along a Curve
- Dragging Things Around

## Chapter 11: Ten Ways to Avoid Mistakes

- Put Capital Letters Where They Belong
- Use Parentheses When (and Only When) They're Appropriate
- Limit Access to Variables
- Call setState
- Make Adjustments for Indices Starting at Zero
- Use the Expanded Widget
- Add itemCount to Your ListView.builder
- Add Imports When They're Required

- Declare Assets and Dependencies in pubspec.yaml
- Indent Your Code According to Dart Language Guidelines

## Chapter 12: Ten Ways to Enhance Your App Development Career

- Practice! Practice!
- Critique Your Own Code
- Have Others Review Your Code
- Find Out Which Technologies Your Nearby Companies Use
- Attend User Group Meetings
- Ask Questions
- Ask Yourself Whether You Truly Understand
- Learn Things That You May Never Need to Know
- Do What You Love to Do
- Get Plenty of Sleep

## Chapter 13: Ten Lessons about Flutter App Development

- Introduction
- What Is Flutter?
- Setting Up Your Computer for Mobile App Development

- ‘Hello’ from Flutter
- Hello Again
- Making Things Happen
- Laying Things Out
- Interacting with the User
- Navigation, Lists, and Other Goodies
- Moving Right Along ...

## Chapter 14: Doris’s Dating App

You can’t stay away! Get



3187 Independence Drive  
Livermore, CA 94551,  
United States



+1-415-763-6300



support@ucertify.com



www.ucertify.com