



Exam Objectives

Unity Certified Associate: Programmer

Prerequisites



Demonstrate core skills and competencies across programming, UI, debugging and asset management to help you obtain your first professional programming role with Unity.

Prerequisite experience:

- 2-3 semesters of post-secondary Unity classwork or equivalent independent study
- Experience with a diverse range of Unity projects
- Importing assets or code, including from the Unity Asset Store or Unity Package Manager, and addressing conflicts that arise as a result
- Performing debugging of non-complex problems
- Interpreting pre-existing, well-documented code
- Integrating and modifying pre-existing well-documented code
- Building basic scene management, including loading scenes
- Creating, editing, and using Prefabs
- Deploying a basic build



Core Skills

(Certification exam topics)

1. Unity Programming

- 1.1. Evaluate code for integration into an existing system created/architected by a lead
- 1.2. Make decisions required to prototype new concepts
- 1.3. Determine code that would accomplish a specified interaction or programming logic
- 1.4. Decide how to implement scene management and transitions
- 1.5. Apply basic data persistence within a runtime session
- 1.6. Given a situation, determine proper usage and application of the Unity API
- 1.7. Decide the appropriate properties, scripts, and components of GameObjects for required tasks
- 1.8. Apply concepts required to write code with basic inheritance and interfaces
- 1.9. Choose the appropriate data structures for a specific situation
- 1.10. Choose the appropriate data types for a specific situation
- 1.11. Identify the steps required to deploy a basic build

2. UI

- 2.1. Apply concepts required to lay out a user interface
- 2.2. Identify the process required to bind data on the UI to application data

- 2.3. Decide how to capture and respond to UI input using the Event System
- 2.4. Decide how to create the menu flow in an application state



3. Debugging

- 3.1. Troubleshoot code that fails to perform as expected
- 3.2. Troubleshoot common compilation bugs
- 3.3. Troubleshoot runtime exceptions
- 3.4. Determine techniques required to refactor and improve code
- 3.5. Determine techniques required to profile and debug trivial performance issues

4. Asset Management

- 4.1. Identify the process required to create a prefab from art and code
- 4.2. Identify properties of nested prefabs and prefab variants
- 4.3. Identify the primary purposes of version control when working with Unity