## Programming C#: Advanced Online Training Series!

**Overview:** This course will teach students about working with objects, methods, methods in classes, inheritance, interfaces, and arrays.

## Course Modules:

### **Module 01 – Working With Objects**

### **(Duration: 1h 20m)**

1. Workbook (Pdf)
2. Topic A: Value and Reference Types – Part 1
3. Value and Reference Types – Part 2
4. Value and Reference Types – Part 3
5. Topic B: Deterministic Object Lifetimes – Part 1
6. Deterministic Object Lifetimes – Part 2
7. Deterministic Object Lifetimes – Part 3
8. Topic C: Instance and Static Members – Part 1
9. Instance and Static Members – Part 2
10. Instance and Static Members – Part 3
11. Topic D: Working with Objects – Part 1
12. Working with Objects – Part 2
13. Working with Objects – Part 3
14. **Review Quiz (Number of attempts allowed: Unlimited)**

### **Module 02 – Methods**

### **(Duration: 1h 20m)**

1. Workbook (Pdf)
2. Topic A: Properties – Part 1
3. Properties – Part 2
4. Properties – Part 3
5. Topic B: Automatic Properties – Part 1
6. Automatic Properties – Part 2
7. Automatic Properties – Part 3
8. Topic C: Methods – Part 1
9. Methods – Part 2
10. Methods – Part 3
11. Topic D: Optional Param and Caller Info – Part 1
12. Optional Param and Caller Info – Part 2
13. Optional Param and Caller Info – Part 3
14. Review Quiz**(Number of attempts allowed: Unlimited)**

### **Module 03 – Methods in Classes**

### **(Duration: 1h 5m)**

1. Workbook (Pdf)
2. Topic A: Methods in Classes – Part 1
3. Methods in Classes – Part 2
4. Methods in Classes – Part 3
5. Topic B: Save and Retrieve Info – Part 1
6. Save and Retrieve Info – Part 2
7. Save and Retrieve Info – Part 3
8. Topic C: Return and Pass Arrays – Part 1
9. Return and Pass Arrays – Part 2
10. Return and Pass Arrays – Part 3
11. Topic D: Instance and Static Members – Part 1
12. Instance and Static Members- Part 2
13. Instance and Static Members- Part 3
14. Topic E: Expression Bodied Methods- Part 1
15. Expression Bodied Methods- Part 2
16. Expression Bodied Methods- Part 3
17. **Review Quiz (Number of attempts allowed: Unlimited)**

### **Module 04 – – Inheritance**

### **(Duration: 1h 16m)**

1. Workbook (Pdf)
2. Topic A: Inheritance- Part 1
3. Inheritance- Part 2
4. Inheritance- Part 3
5. Topic B: Derived Classes- Part 1
6. Derived Classes- Part 2
7. Derived Classes- Part 3
8. Topic C: Override and Overload Members- Part 1
9. Override and Overload Members- Part 2
10. Override and Overload Members- Part 3
11. Topic D: Abstract Classes and Members- Part 1
12. Abstract Classes and Members- Part 2
13. Abstract Classes and Members- Part 3
14. Review Quiz**(Number of attempts allowed: Unlimited)**

### **Module 05 – Interfaces**

### **(Duration: 1h 32m)**

1. Workbook (Pdf)
2. Topic A: Sealed Classes and Members- Part 1
3. Sealed Classes and Members- Part 2
4. Sealed Classes and Members- Part 3
5. Topic B: Interfaces- Part 1
6. Interfaces- Part 2
7. Interfaces- Part 3
8. Topic C: Interfaces in .NET Framework- Part 1
9. Interfaces in .NET Framework- Part 2
10. Interfaces in .NET Framework- Part 3
11. Topic D: Partial and Nested Classes- Part 1
12. Partial and Nested Classes- Part 2
13. Partial and Nested Classes- Part 3
14. Topic E: Namespaces- Part 1
15. Namespaces- Part 2
16. Namespaces- Part 3
17. **Review Quiz (Number of attempts allowed: Unlimited)**

### **Module 06 – Arrays**

### **(Duration: 1h 48m)**

1. Workbook (Pdf)
2. Topic A: Arrays- Part 1
3. Arrays- Part 2
4. Arrays- Part 3
5. Topic B: Initalize Array, Retrieve Data- Part 1
6. Initalize Array, Retrieve Data- Part 2
7. Initalize Array, Retrieve Data- Part 3
8. Topic C: Arrays as Method Parameters- Part 1
9. Arrays as Method Parameters- Part 2
10. Arrays as Method Parameters- Part 3
11. Topic D: Arrays in the .NET Framework- Part 1
12. Arrays in the .NET Framework- Part 2
13. Arrays in the .NET Framework- Part 3
14. Topic E: Manipulating Arrays- Part 1
15. Manipulating Arrays- Part 2
16. Manipulating Arrays- Part 3
17. Topic F: Allowing Flexible Sorting- Part 1
18. Allowing Flexible Sorting- Part 2
19. Allowing Flexible Sorting- Part 3
20. Topic G: Advanced Sorting- Part 1
21. Advanced Sorting- Part 2
22. Advanced Sorting- Part 3
23. Topic H: Searching Arrays- Part 1
24. Searching Arrays- Part 2
25. Searching Arrays- Part 3
26. Topic I: Creating Indexers- Part 1
27. Creating Indexers- Part 2
28. Creating Indexers- Part 3
29. Review Quiz**(Number of attempts allowed: Unlimited)**

**This course includes**

* about 7.34 hours on-demand video
* 6 downloadable Pdf Workbooks
* Unlimited time access (During Membership)
* Access on mobile and Desktop
* Certificate of Completion