



C++ INSTITUTE CPA-21-02

**C++ Institute CPA Certified Associate Programmer Certification
Questions & Answers**

Exam Summary – Syllabus – Questions

CPA-21-02

CPA - C++ Certified Associate Programmer

40 Questions Exam – 70% Cut Score – Duration of 65 minutes

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Know Your CPA-21-02 Certification Well:

The CPA-21-02 is best suitable for candidates who want to gain knowledge in the C++ Institute C++ Programming. Before you start your CPA-21-02 preparation you may struggle to get all the crucial CPA Certified Associate Programmer materials like CPA-21-02 syllabus, sample questions, study guide.

But don't worry the CPA-21-02 PDF is here to help you prepare in a stress-free manner.

The PDF is a combination of all your queries like-

- What is in the CPA-21-02 syllabus?
- How many questions are there in the CPA-21-02 exam?
- Which Practice test would help me to pass the CPA-21-02 exam at the first attempt?

Passing the CPA-21-02 exam makes you CPA - C++ Certified Associate Programmer. Having the CPA Certified Associate Programmer certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

C++ Institute CPA-21-02 CPA Certified Associate Programmer Certification Details:

Exam Name	CPA - C++ Certified Associate Programmer
Exam Code	CPA-21-02
Exam Price	\$295 (USD)
Duration	65 mins
Number of Questions	40
Passing Score	70%
Books / Training	C++ Essentials 1 (Basics) (Edube, self-enroll/self-study) C++ Essentials 2 (Intermediate) (Edube, self-enroll/self-study)
Schedule Exam	Pearson VUE
Sample Questions	C++ Institute CPA Certified Associate Programmer Sample Questions
Practice Exam	C++ Institute CPA-21-02 Certification Practice Exam

CPA-21-02 Syllabus:

Topic	Details
Absolute basics	<ul style="list-style-type: none"> - machine and high-level programming languages, compilation process, - obtaining the machine code: compilation process, - writing simple programs, - variables, - integers: values, literals, operators, - characters: values, literals, operators, - dealing with streams and basic input/output operations.
Flow control and more data types	<ul style="list-style-type: none"> - how to control the flow of the program - floating point types: values, literals, operators, - more integer types: values and literals, - loops and controlling the loop execution, - logic, bitwise and arithmetic operators.
Functions	<ul style="list-style-type: none"> - functions, - declaring and invoking functions, - side effects, - different methods of passing parameters and their purpose, - default parameters, - inline functions, - overloaded functions.
Accessing data and dealing with exceptions	<ul style="list-style-type: none"> - converting values of different types, - strings: declarations, initializations, assignments, - string as an example of object: introducing methods and properties, - namespaces: using and declaring, - dealing with exceptions.
Fundamentals of the object-oriented approach	<ul style="list-style-type: none"> - class, - objects, - class components, - constructors, - referring to objects, - static members, - classes and their friends, - defining and overloading operators.
Class hierarchy	<ul style="list-style-type: none"> - base class, superclass, subclass, - inheritance: how it works, - types of inheritance, - inheriting different class components, - multiple inheritance.
More on classes	<ul style="list-style-type: none"> - polymorphism: the notion and the purpose, - virtual methods: declaration and usage, - inheriting virtual methods, - abstraction and abstract classes.
The Basics of Functions	<ul style="list-style-type: none"> - what is an exception, - catching and throwing exceptions, - different classes and hierarchy of exceptions, - defining your own exceptions.

C++ Institute CPA-21-02 Sample Questions:

Question: 1

Which statements are true about friend functions in C++?

- a) They can access private members of the class
- b) They are declared outside the class definition
- c) They require the friend keyword in the class declaration
- d) They are members of the class
- e) They can be used for operator overloading

Answer: a, b, c, e

Question: 2

A function must modify the value of an argument passed to it. Which method of passing is suitable?

- a) By value
- b) By reference
- c) By constant reference
- d) By pointer

Answer: b

Question: 3

What are valid characteristics of overloaded functions?

- a) Functions have different return types
- b) Functions have different access specifiers
- c) Functions have the same name
- d) Functions have different parameter lists
- e) Functions are implemented in different classes

Answer: c, d

Question: 4

You need to write a program that takes an integer input and prints its square. Which of the following is correct?

- a) `int x;`
`cin >> x;`
`cout << x * x;`
- b) `int x;`
`cout << x * x;`
`cin >> x;`
- c) `cout << "Square: ";`
`int x;`
`cin >> x;`
- d) `int x;`
`cin >> x;`
`cout << x + x;`

Answer: a

Question: 5

Which components can be inherited from a base class?

- a) Public members
- b) Protected members
- c) Private members
- d) Static members
- e) Constructors

Answer: a, b, d

Question: 6

How do you declare a namespace in C++?

- a) `using namespace <name>`
- b) `declare namespace <name>`
- c) `namespace <name> { // code }`
- d) `import namespace <name>`

Answer: c

Question: 7

What are valid ways to catch exceptions in C++?

- a) By reference
- b) By value
- c) By pointer
- d) Using catch(...)
- e) Using catch(const char* e)

Answer: a, d, e

Question: 8

Which phase of the compilation process converts high-level language code into machine code?

- a) Linking
- b) Parsing
- c) Assembling
- d) Compilation

Answer: d

Question: 9

What are valid reasons to use multiple inheritance in C++?

- a) To combine features from multiple base classes
- b) To implement interface-like functionality
- c) To inherit constructors from all base classes
- d) To access multiple sets of private members
- e) To avoid creating deep inheritance chains

Answer: a, b

Question: 10

A variable needs to store a numeric value that may include fractions. What is the correct way to declare it?

- a) `int x = 3.14;`
- b) `float x = 3.14;`
- c) `char x = 3.14;`
- d) `bool x = true;`

Answer: b

Study Guide to Crack C++ Institute CPA Certified Associate Programmer CPA-21-02 Exam:

- Getting details of the CPA-21-02 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the CPA-21-02 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the C++ Institute provided training for CPA-21-02 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the CPA-21-02 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on CPA-21-02 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for CPA-21-02 Certification

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