

C++03

Assessment Fact Sheet

Overview

The C++03 test measures knowledge of the object oriented programming language C++. It focuses on the most commonly used skills required to proficiently program using the C++ language. This test is designed for experienced programmers.

Job Family/Title	Programmer
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Details

Average Testing Time (minutes)	43 minutes
Allowed Time (minutes)	90 minutes
Maximum Number of Questions	30 questions
Number of Sitzings	One
Designed for Unproctored Environment	Yes
Question Format	Multiple Choice – Adaptive
Product Category	Information Technology

Knowledge, Skills, Abilities and Competencies Measured

Measures knowledge of the following areas of the C++ programming language:

- Basic Structure and Syntax
- C++ Class
- C++ Data Types
- Class Derivation and Inheritance
- Class Member Functions
- Exception Handling
- Fundamentals of OOD
- OOP

Example Questions

Question Time Remaining: 0h : 2m : 43s

```
std::vector<int> vi(100);

for (unsigned int i = 0; i < 100; i++)
    vi[i] = i*i;

int x = 100;
std::find(vi.begin(), vi.end(), x);

int y = 7;
std::find(vi.begin(), vi.end(), y);
```

Referring to the above sample code, what are the return values from `std::find()` after the call using `x` and the call using `y`?

a

☐

x: `vi[10]`
y: `std::vector::npos`

b

☐

x: `vi.at(10)`
y: `vi.at(-1)`

c

☐

x: `vi[10]`
y: `-1`

d

☐

x: `&vi[10]`
y: `NULL`

e

☐

x: `vi.begin()+10`
y: `vi.end()`

Next

Example Reports

Test: C++

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Score: 3.0

Proficiency Level: **Proficient** (2.51 - 3.50)

The candidate has mastered the basic concepts of C++, including:

- Encapsulation and Classes
- Construction and Destruction
- Non-core Features

The candidate demonstrates a clear understanding of intermediate C++ concepts, such as:

- Types
- Inheritance
- I/O
- Exceptions

The candidate may have some knowledge of more advanced C++ concepts such as:

- Standard Template Library
- Overloading
- Templates

At the Proficient level, the candidate will be capable of working on most projects involving C++ with minimal assistance. However, the candidate will probably require more assistance with advanced concepts.

Percentile Comparisons
The percentile score indicates how well the candidate scored relative to other candidates in the comparison population indicated by the score.

Percentile Comparisons		Low	Medium	High
Global Population	55	30	70	100
Company Population	98			

Detail Item Results												
Order	Question	Topic	Description	Skill Level	Time Taken (Seconds)	Is Correct	A	B	C	Theta	Info	Stand Error
1	C++_BB_1440_R1	Standard Template Library	Algorithms	Advanced	139.7	Yes						
2	C++_BB_1444_R1	Construction and Destruction	Explicit Constructors	Basic	123.5	No						
3	C++_BB_0602_R1	I/O	Output Streams	Intermediate	35.0	Yes						