

Lesson 1 Instructor Answer Key

What Is C plus plus

Use this key to review student work quickly. Equivalent correct code is acceptable if it compiles, runs, and meets the exercise requirements.

Exercise 1 Labels

Program Part	Correct Identification
<code>#include <iostream></code>	Include line
<code>using namespace std;</code>	Namespace shortcut for beginner use
<code>int main()</code>	Main function and program starting point
<code>{ }</code>	Braces around the body of main
<code>cout << ... << endl;</code>	Print statement
<code>;</code>	Semicolon ending a statement
<code>return 0;</code>	Signals the program finished successfully

Exercise 2 Sample Answer

```
#include <iostream>

using namespace std;

int main() {
    cout << "My name is Alex." << endl;
    cout << "I am learning C++." << endl;
    cout << "I am on a robotics team." << endl;
    return 0;
}
```

Exercise 3 Sample Comments

```
// This program prints a short introduction.
int main() {
    // Print the student's name.
    cout << "My name is Alex." << endl;
    return 0;
}
```

Exercise 4 Bug Fixes

Buggy Code	Corrected Code
cout << "Hello" << endl	cout << "Hello" << endl;
cout << Hello << endl;	cout << "Hello" << endl;
return 0	return 0;
cout < "Robotics" << endl;	cout << "Robotics" << endl;

Exercise 5 Sample Answer

```
#include <iostream>

using namespace std;

int main() {
    // Lesson 1 skill check output.
    cout << "C++ Skill Check" << endl;
    cout << "I can edit source code." << endl;
    cout << "I can compile and run a program." << endl;
    return 0;
}
```

Suggested Rubric

Result	Description
Ready	Compiles, runs, and student can explain main, cout, braces, and semicolons.
Almost ready	Program works after one or two small syntax fixes.
Needs support	Student cannot yet compile and run without step-by-step help.