



INSTITUTE

# CERTIFICATE

of proficiency in the  
C++ programming language

## Tamar Kranenburg

is a C++ Certified Associate  
Programmer | **CPA**

Exam Version: CPA-21-01

### Scope

- Basic data types and flow control
- Functions and function overloading
- Data aggregates
- Fundamentals of the object-oriented approach
- Class hierarchy and inheritance
- User-defined operators and exceptions

Christopher Boguslawski  
President, C++ Institute



This certificate can be verified at  
[certificate.cppinstitute.org](http://certificate.cppinstitute.org)  
Code: **QUfd.ysvS.k28C**

