

## CONTINUOUS PROFESSIONAL DEVELOPMENT COURSES:

Self-paced, Online, International Credentials

### FACT SHEET: C++ PROGRAMMING

#### Course overview

As one of the most popular programming languages, C++ is hailed for its efficiency and its ease for developing games, real-time systems, and applications with graphical libraries. Take the course to learn the basics of programming in the C++ language, and the fundamental notions and techniques it uses. C++ knowledge lends itself well for landing jobs in Security, Networking and IoT fields

#### The C++ programming course contains two modules:

- C++ Certified Associate Programmer (CPA)
- C++ Certified Professional Programmer (CPP)

#### Minimum Entry Requirements

- Open entry for C++ Certified Associate Programmer (CPA)
- C++ Certified Associate Programmer for C++ Certified Professional Programmer

#### What is the Duration of Study?

Duration: 70 hours per module. We recommend the minimum period is ten (10) to twelve (12) weeks with a maximum duration of four (4) months, dependent on the Learners' control over time, place, and pace.

#### What materials/resources will I require to Study?

It is compulsory for students to have access to a computer and internet. All course material and/or notes and assessments will only be accessible online or electronically. Chrome and Firefox web browser is recommended for accessing ColCampus and the Cisco Network Academy.

No additional material is required for this module.

#### What is the language of teaching and learning?

English is the language of communication, instruction, and assessment at Boston.

#### What is the mode of delivery?

Digital Learning supported with rich-media courseware. For every module, this includes:

- ColCampus, which is accessed online and/or at the Support Centre
- ColCampus promotes anytime, anywhere learning resources in a safe, secure online environment.
- Cisco Network Academy Online platform.

#### What is a Support Centre?

Boston's network of Support Centers grants our students access to computers to access *ColCampus* and the *Cisco Network Academy*. Students must select a single Support Centre and may make use of the facilities for the duration of their studies.

#### Who will provide me with Academic and Tuition Support?

Boston has appointed qualified and experienced Educators and Supervisors to provide support to learners. Students can contact Educators and/or Supervisors any time via ColCampus, through e-mail, or alternatively book a telephonic or Skype appointment. Face-to-face appointments can also be arranged but these will be by appointment only and will take place exclusively at Boston's Head Office.

#### Where do I complete my Summative Assessment?

All assessments are conducted on the Cisco Network Academy online system.

## C++ CERTIFIED ASSOCIATE PROGRAMMER (CPA) (BOSTON CODE: CSCPA)

**Duration:** 70 Hours

**Learning Component Highlights:**

- 8 modules of interactive instructional content
- 100+ practice labs

**Internal Assessments:** 1 final exam and 1 Skill Assessment exam (Pass Mark – 70%) **Maximum of 3 attempts only allowed.**

**Delivery Method:** Online. Self-Paced

**Outcomes:**

When you learn C++, you develop overarching fundamentals for all programming languages. Practice your skills through hands-on labs and write your own programs.

**Course Recognitions:** Cisco Certificate of Completion.

*On completion of the above module, students may attempt the International examination at a Vue Testing Centre: CPA: C++ Certified Associate Programmer*  
The certification body: C++ Institute.

**Further Study Opportunities: C++ Certified Professional Programmer (CPP)**

Career Options: Develop skills for entry-level programming roles.

---

## C++ CERTIFIED PROFESSIONAL PROGRAMMER (CPP) (BOSTON CODE: CSCPP)

**Duration:** 70 Hours

**Learning Component Highlights:**

- 9 modules of interactive instructional content
- 65+ practice labs

**Internal Assessments:** 1 final exam and 1 Skill Assessment exam (Pass Mark – 70%) **Maximum of 3 attempts only allowed.**

**Delivery Method:** Online. Self-Paced

**Outcomes:**

This advanced course teaches intermediate to advanced coding such as C++ template mechanism, understanding and using property template classes and methods, and the C++ STL library including solving common programming problems and the IO part.

**Course Recognitions:** Cisco Certificate of Completion.

*On completion of the above module, students may attempt the International examination at a Vue Testing Centre: CPP: C++ certified Professional Programmer*  
The certification body: C++ Institute.

**Further Study Opportunities: Cisco Certified DevNet Associate**

Career Options: Develop skills for entry-level to professional level programming role.

---

## How do I apply/register?

No application required, simply register at one of the 45 Boston Support Centers, see table overleaf.

## About the Institution and International Recognition

Boston City Campus & Business College (Pty) Ltd Reg. No. 1996/013220/07 is registered with the Department of Higher Education and Training (DHET), as a private higher education institution, No. 2003/HE07/002, in terms of Section 54(1)(c) of the Higher Education Act, 1997 (Act No 101 of 1997), and Regulation 14(4)(a) of the Regulations for the Registration of Private Higher Education Institutions, 2016. Boston is internationally recognised by the British Accreditation Council (BAC). Boston is a member of the Cisco Networking Academy, a global IT and cybersecurity education program that partners with educational institutions to empower learners with skills for career advancement.

Boston Support Centres 2021		
• Alberton	• Krugersdorp	• Queenstown
• Bedfordview	• Ladysmith	• Randburg
• Bellville	• Mthata	• Richards Bay
• Benoni	• Nelspruit	• Roodepoort
• Bloemfontein	• Newcastle	• Rosebank
• Braamfontein	• Orange Grove	• Rustenburg
• Cape Town	• Paarl	• Somerset West
• Durban City	• Pietermaritzburg	• Soweto
• East London	• Polokwane	• Springs
• George	• Port Elizabeth	• Stanger
• Germiston	• Port Shepstone	• Tzaneen
• Johannesburg	• Potchefstroom	• Umhlanga
• Kempton Park	• Pretoria Arcadia	• Vereeniging
• Kimberley	• Pretoria Lynnwood Glen	• Welkom
• Klerksdorp	• Pretoria North	• Witbank

## Disclaimer

This Fact Sheet together with the Prospectus and Student Rulebook are accurate at the time of publication. Boston City Campus & Business College (Pty) Ltd reserves the right to alter any of the content due to changes in regulations, market requirements and other reasons. Please note that meeting any of the admission requirements does not necessarily guarantee entry into the qualification. All applications will be evaluated on an individual basis and acceptance will depend on the decision of the Academic Committee at Head Office.

Website: [www.boston.co.za](http://www.boston.co.za)

Email: [info@boston.co.za](mailto:info@boston.co.za)