

CONTINUOUS PROFESSIONAL DEVELOPMENT COURSES:

Self-paced, Online, International Credentials

FACT SHEET: THE INTERNET OF THINGS (IOT)

Course overview

The Internet over Things (IoT) covers the basis of this exciting and emerging field using fun, hands-on activities to model securely connecting sensors to cloud services over IP networks and collecting data in an end-to-end IoT (Internet of Things) system.

The IoT online curriculum includes six *modules*:

- IT Essentials
- Network Essentials
- Introduction to IoT
- IoT Fundamentals: Connecting Things
- IoT Fundamentals: Big Data & Analytics
- IoT Security

Minimum Entry Requirements

- Open entry

What is the Duration of Study?

Duration: 210 hours. 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.

IT ESSENTIALS (BOSTON CODE: CSITES)

Duration: 70 Hours

Learning Component Highlights:

- 14 chapters and 99 practice labs
- Cisco Packet Tracer, virtual laptop, and virtual desktop learning tools
- 29+ interactive activities
- 18+ assessments throughout the course

Internal Assessments: 1 final exam (Pass Mark – 70%) **Maximum of 5 attempts only allowed.**

Delivery Method: Online. Self-Paced

Outcomes:

Develop skills for entry-level technical support roles.

Course Recognitions:

- Cisco Certificate of Completion.
- Letter of Merit.
- Digital Badge.

NETWORK ESSENTIALS (BOSTON CODE: CSNETES)

Duration: 70 Hours

Learning Component Highlights:

- 20 modules and 19 practice labs
- 24 Cisco Packet Tracer activities
- 130+ interactive activities, videos, & quizzes
- 5 module exams

Internal Assessments: 1 final exam (Pass Mark – 70%) **Maximum of 5 attempts only allowed.**

Delivery Method: Online. Self-Paced

Outcomes:

Gain practical, hands-on experience and skills needed to configure, operate and troubleshoot large-scale enterprise network

Course Recognitions:

- Cisco Certificate of Completion,
- Letter of Merit

INTRODUCTION TO IOT (BOSTON CODE: CSIOTINT)

Duration: 20 Hours

Learning Component Highlights:

- 6 chapters
- 17 practice labs (plus 4 optional labs)
- 7 Cisco Packet Tracer activities
- 40+ interactive activities, videos, & quizzes

Internal Assessments: 1 final exam (Pass Mark – 70%) **Maximum of 5 attempts only allowed.**

Delivery Method: Online. Self-Paced

Outcomes:

Intent-Based Networking using a software- driven approach and machine learning to be able to connect and secure tens of billions of new devices with ease.

Course Recognitions:

- Cisco Certificate of Completion,
- Digital Badge.

IOT FUNDAMENTALS: CONNECTING THINGS (BOSTON CODE: CSIOTCON)

Duration: 50 Hours

Learning Component Highlights:

- 6 chapters and 35 practice labs
- 9 Cisco Packet Tracer activities
- 32+ interactive activities, videos, & quizzes

Internal Assessments: one final exam (Pass Mark – 70%) Maximum of 5 attempts only allowed.

Delivery Method: Online. Self-Paced

Outcomes:

Develop the interdisciplinary skillset required to prototype an IoT solution for a specific business case with a strong focus on the security considerations for emerging technologies

Course Recognitions:

- Cisco Certificate of Completion

IOT FUNDAMENTALS: BIG DATA & ANALYTICS (BOSTON CODE: CSIOTDAT)

Duration: 70 Hours

Learning Component Highlights:

- 6 chapters and 35 practice labs
- 9 Cisco Packet Tracer activities
- 32+ interactive activities, videos, & quizzes

Internal Assessments: 1 final exam (Pass Mark – 70%) **Maximum of 5 attempts only allowed.**

Delivery Method: Online. Self-Paced

Outcomes:

The ability to use IoT systems to extract data and using data analytics techniques to gain insights are skills highly-valued by employers.

Course Recognitions: Cisco Certificate of Completion.

IOT SECURITY (BOSTON CODE: CSIOTSEC)

Duration: 50 Hours

Learning Component Highlights:

- 6 chapters and 24 practice labs
- 5 Cisco Packet Tracer activities
- 50+ interactive activities, videos, & quizzes
- 1 hands-on capstone activity
- 1 IoT Security game with 10 missions

Internal Assessments: 1 final exam (Pass Mark – 70%) **Maximum of 5 attempts only allowed.**

Delivery Method: Online. Self-Paced

Outcomes:

Develop skills for entry-level roles in the rapidly growing IoT and security domains.

Course Recognitions: Cisco Certificate of Completion,

Can I further my studies when I have completed the IoT course?

On successful completion of the IoT, Learner can apply for CCNA, Cisco CyberOps

Career Options: Develop skills for entry-level IoT jobs.

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		
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