Cyber Brain Academy

Train Smarter
Certify Faster

CYBERSECURITY ESSENTIALS

Technology changes fast.
Security fundamentals do not.

Train Smarter
Certify Faster

Building the Future **Together**

Cyber Brain Academy is committed to shaping the future of education by delivering world class training in cybersecurity, information technology, and professional certifications. Built on the belief that access to high quality learning creates life changing opportunities, we empower students, professionals, and lifelong learners to gain the skills that lead to lasting success.

Our academy serves as a trusted partner for individuals, universities, and organizations that want to strengthen their academic and professional programs. With expert instructors, carefully structured courses, and a focus on measurable outcomes, we transform education into practical knowledge that is recognized and valued across industries.

The demand for skilled professionals continues to grow, and the gap between education and workforce readiness is a challenge faced by institutions everywhere. Cyber Brain Academy stands at the center of this challenge, offering pathways that connect classroom achievement with industry credentials and meaningful careers.

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Program Overview

CYBERSECURITY ESSENTIALS

Cybersecurity Essentials is a structured, self-paced CompTIA Security+ preparation course designed to support professional skill development and certification readiness. The program combines instructional content, hands-on lab simulations, performance-based questions, and domain assessments

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What's Included

CYBERSECURITY ESSENTIALS

- 28 domain-aligned learning modules
- 5 comprehensive student guides
- Hands-on lab simulations across all domains
- Performance-based questions mapped to real scenarios
- Flashcards for every domain
- 5 section assessments
- 3 full final exams
- Detailed answers and explanations for all quizzes and exams
- Complete study guide, exam objectives, and exam tips

8-Week Program Syllabus

Week 1: General Security Concepts I

Instruction
Cybersecurity Essentials Program Overview (2:20)
Section 1 Student Guide
Module 1: Types of Security Controls (7:07)
Module 2: Fundamental Security Concepts (36:51)

Practice
General Security Concepts Flashcards

Performance-based Question
Compare and Contrast Security Control and Framework Types

Labs
Use Steganography to Hide a File
Hide Files with OpenStego

Week 2: General Security Concepts II

Instruction
Module 3: Change Management Processes (44:47)
Module 4: Cryptographic Solutions (32:37)

Performance-based Question
Identify Cryptographic Modes of Operation Performance-based Question

Labs
Encrypt Files with EFS
Configure BitLocker with a TPM
Compare an MD5 Hash
Manage Certificates

Review and Assessment
Section 1 Review Video (5:09)
Section 1 Assessment

Week 3: Threats, Vulnerabilities, and Mitigations I

Instruction
Section 2 Student Guide
Module 5: Common Threat Actors and Motivations (12:11)
Module 6: Common Threat Vectors and Attack Surfaces (16:03)

Practice
Threats, Vulnerabilities, and Mitigations Flashcards

Performance-based Question
Identify Types of Vulnerabilities Performance-based Question

Labs
Use the Social Engineer Toolkit
Perform Reconnaissance with Nmap
Implement Physical Security

Week 4: Threats, Vulnerabilities, and Mitigations II

Instruction
Module 7: Various Types of Vulnerabilities (13:03)
Module 8: Indicators of Malicious Activity (22:13)
Module 9: Mitigation Techniques to Secure the Enterprise (8:44)

Performance-based Question
Social Engineering Tickets Performance-based Question

Labs
Analyze Network Traffic
Poison ARP and Analyze with Wireshark
Poison DNS
Configure Rogue Host Protection
Harden a Wireless Network
Configure a Perimeter Firewall
Configure a Screened Subnet

Review and Assessment
Section 2 Review Video (3:41)
Section 2 Assessment

Week 5: Security Architecture

Instruction
Section 3 Student Guide
Module 10: Security Implications of Different Architecture Models (8:45)
Module 11: Security Principles to Secure Enterprise Infrastructure (6:08)
Module 12: Concepts and Strategies to Protect Data (4:59)
Module 13: Resilience and Recovery in Security Architecture (5:32)

Practice
Security Architecture Flashcards

Performance-based Question
Implement Secure Remote Access Protocols Performance-based Question
Incorporate Redundancy Strategies Performance-based Question

Labs
Implement an Access Control Model
Configure NTFS Permissions
Restoring Server Data from Backup
Backup a Domain Controller
Hardware Clustering
Examine a Forensic Drive Image with Autopsy

Review and Assessment
Section 3 Review Video (3:30)
Section 3 Assessment

Week 6: Security Operations I

Instruction
Section 4 Student Guide
Module 14: Common Security Techniques to Computing Resources (4:25)
Module 15: Security Implications of Proper Hardware, Software, and Data Asset Management (4:00)
Module 16: Vulnerability Management Activities (3:26)
Module 17: Security Alerting and Monitoring Concepts and Tools (2:48)

Practice
Security Operations Flashcards

Performance-based Question
Implement an Access Control Model Performance-based Question

Labs
Scanning a Network with Nessus
Configure Account Password Policies

Week 7: Security Operations II

Instruction
Module 18: Enterprise Capabilities to Enhance Security (15:58)
Module 19: Identity and Access Management (14:01)
Module 20: Automation and Orchestration Related to Secure Operations (8:51)
Module 21: Appropriate Incident Response Activities (8:17)
Module 22: Data Sources to Support an Investigation (6:15)

Performance-based Question
Incident Response Procedures Performance-based Question

Labs
Shells and Scripting
Use Elasticsearch Logstash Kibana
Monitoring Data and Metadata
Configuring Remote Logging on Linux

Review and Assessment
Section 4 Review Video (3:27)
Section 4 Assessment

Week 8: Security Program Management and Final Exam

Instruction
Section 5 Student Guide
Module 23: Elements of Effective Security Governance (5:44)
Module 24: Elements of the Risk Management Process (5:10)
Module 25: Third-party Risk Assessment and Management (5:09)
Module 26: Elements of Effective Security Compliance (4:49)
Module 27: Types and Purposes of Audits and Assessments (4:17)
Module 28: Implement Security Awareness Practices (8:11)

Practice
Security Program Management and Oversight Flashcards

Labs
Auditing the Windows Security Log
Configure Advanced Audit Policy
Auditing Device Logs on a Switch
Enable Device Logs

Review and Assessment
Section 5 Review Video (3:37)
Section 5 Assessment
Final Exam
Final Exam 2
Final Exam 3

Building Skills That Employers Value

Cybersecurity Essentials is a comprehensive training program designed to help you master core cybersecurity concepts, develop real-world skills, and prepare for the CompTIA Security+ certification exam. Built for beginners and aspiring cybersecurity professionals alike, Cybersecurity Essentials offers a structured, easy-to-follow learning path that transforms complex topics into clear, actionable knowledge.

Whether you are new to technology, transitioning careers, or strengthening your existing IT skills, this program gives you the foundation, tools, and confidence to succeed in the cybersecurity field.

Designed specifically for undergraduates and non-IT majors who want to build a strong foundation in security concepts before moving on to advanced certifications.

Every section concludes with a review video and a graded assessment to reinforce comprehension and track progress.

We provide students with the confidence and practical experience needed not only to earn certifications but also to apply their knowledge in real-world environments.

Limits of Traditional Education

Employers are clear about what they need. A degree alone is no longer enough. Our certification programs have become a baseline requirement for many roles, serving as proof that candidates can meet the demands of modern security challenges.

The University Challenge

Where Institutions Struggle

For universities, this creates a difficult reality. While they excel at delivering academic knowledge, many institutions face challenges in offering certification-aligned programs.

Bridging the Academic Gap

Building these programs in-house requires specialized instructors, continuous content updates, and significant financial investment. Without these resources, universities risk falling short of preparing students with the career-ready credentials that employers demand.

From the Classroom to Career Advancement

Cyber Brain Academy provides a direct answer to the growing demand for career-ready education. Our training programs are fully certification aligned, covering the most sought-after credentials such as Security+, CISSP, CAPM, and many others. Delivered through live online sessions, flexible evening formats, and on-demand access, our approach ensures that learners can engage with content in a way that fits their schedule while still receiving the highest quality instruction.

A Record of Excellence in Certification Training

We bring a proven track record of success, having trained professionals, veterans, and government clients who consistently achieve their certification goals and advance in their careers. Our instructors combine decades of industry expertise with practical teaching methods, ensuring that every student is prepared not just to pass an exam but to excel in the workplace.

Here's What Real Students Are Saying

5.0
RATING

"One of the best experiences"

I can say that I had one of the best experiences as far as school is concerned. The teacher had a lot of knowledge of the subject, if we needed something, he took the time to explain it to us and he even stayed after my class for people who had questions.

"Well Structured"

I recently completed a security course with Cyber Brian Academy, and I couldn't be more impressed with the experience. The course was thorough, well-structured, and delivered by a knowledgeable instructor who really knew their stuff.

The World's Most Recognized Credentials

- CAPM — Certified Associate in Project Management
- PMP — Project Management Professional
- PMI-RMP — PMI Risk Management Professional
- PgMP — Program Management Professional
- PMI-ACP — PMI Agile Certified Practitioner
- PfMP — Portfolio Management Professional
- PMI-PBA — PMI Professional in Business Analysis
- PMI-CP — PMI Construction Professional

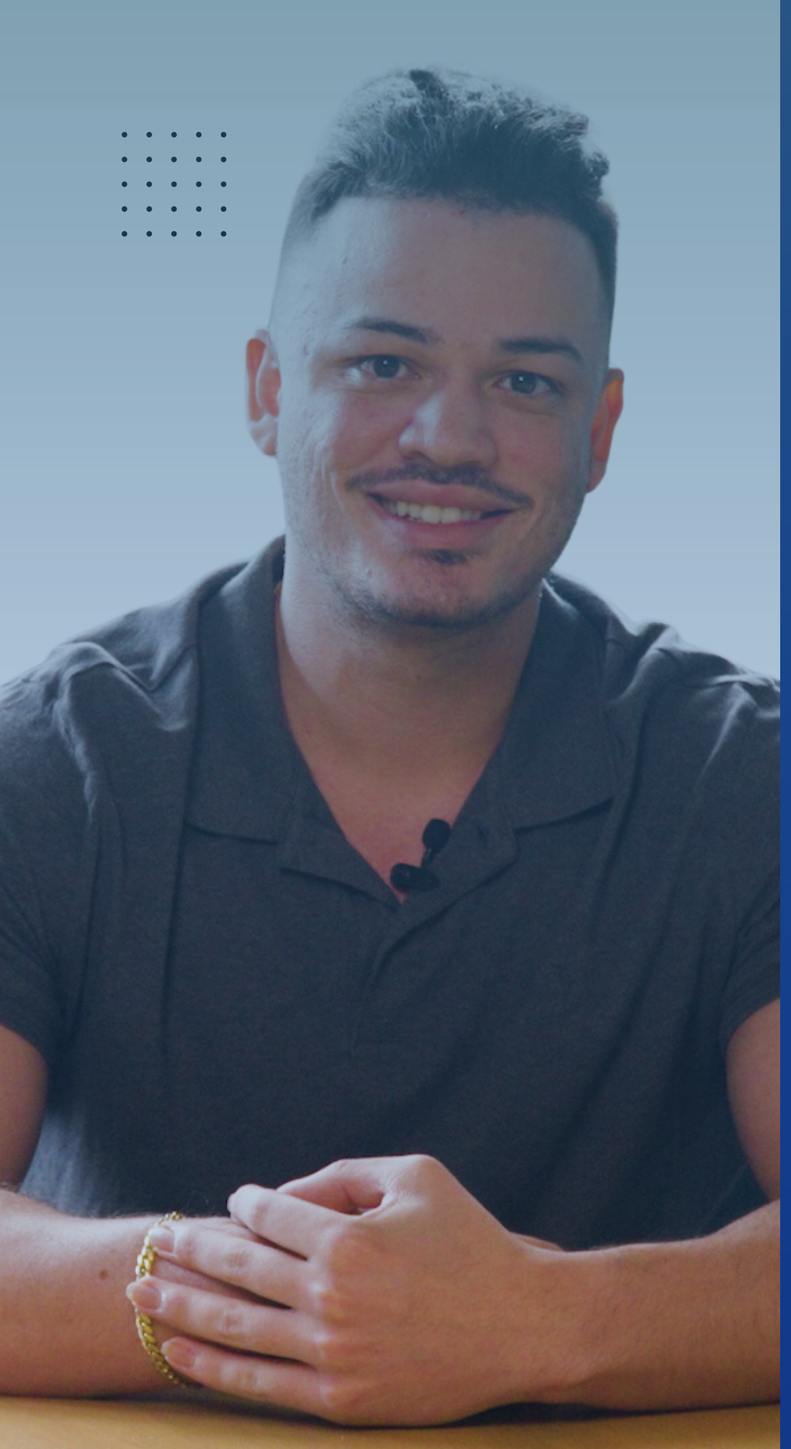
- CompTIA ITF+ Certification Plus Series
- CompTIA Tech+ Certification Plus Series
- CompTIA A+ Certification Plus Series
- CompTIA Network+ Certification Plus Series
- CompTIA Security+ Certification Plus Series
- CompTIA CySA+ Certification Plus Series
- CompTIA Linux+ Certification Plus Series
- CompTIA Server+ Certification Plus Series
- CompTIA Cloud+ Certification Plus Series
- CompTIA PenTest+ Certification Plus Series
- CompTIA Project+ Certification Plus Series
- CompTIA CASP+ Certification Xpert Series

- CCOA — Certified Cybersecurity Operations Analyst
- CISA — Certified Information Systems Auditor
- CRISC — Certified in Risk and Information Systems Control
- CISM — Certified Information Security Manager

Cyber Brain Academy

- CDPSE — Certified Data Privacy Solutions Engineer
- CGEIT — Certified in the Governance of Enterprise IT
- CEH — Certified Ethical Hacker
- CCISO — Certified Chief Information Security Officer

- CC
- SSCP
- CGRC
- CISSP
- CCSP
- CSSLP
- ISSAP
- ISSEP



REAL STUDENTS. REAL RESULTS.

Jesse Margarini

“Thanks to Cyber Brain Academy, I was officially able to get certified in Security+.”

View Jesse’s Testimonial on YouTube

REAL STUDENTS. REAL RESULTS.

Ibrahim Swaray

“If I’m going to recommend Cyber Brain Academy, I’d put them as top-notch”

View Ibrahim’s Testimonial on YouTube