



Commonwealth Coders & Cyber

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COURSE 20 CATALOG 24

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2024 COURSE DATES



CODING WITH AI PROGRAM



CYBERSECURITY PROGRAM



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■ Introduction



Given the ever-changing nature of technology and Commonwealth Coders & Cyber's mission to teach an industry relevant curriculum, the information in this catalog is subject to change.

Students should check our website (www.commonwealthcodersandcyber.com) for the most up to date course schedules, curriculum and course objectives before enrolling. If there are any questions or concerns, please reach out to an Admissions Representative at (513) 881-2901.

Commonwealth Coders & Cyber is an equal opportunity affirmative action organization in accordance with civil rights legislation and does not discriminate on the basis of race, religion, national origin, sex, age, disability, veteran status, or any other basis of discrimination prohibited by law in any of its educational programs, activities, admission or employment policies.

Kable Academy DBA Commonwealth Coders & Cyber
4901 Hunt Road, Suite 200
Blue Ash, OH 45242

State of Ohio Certificate #2184

This catalog is certified as true and correct in content and policy.



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Administrators & Faculty

Chris Ellison
President

Hanya El-Shamy
Admissions Coach

Nora Krukowski
Admissions Coach

Katherine Miller
Career Coordinator

Cybersecurity

Richard Barnes Jr.
Instructor

Jonathan Lascelles
Instructor

Daniel Hoffman
Instructor

Ryan Twele
Instructor

Coding With AI

Austin Morales
Instructor

Spencer Dresmann
Instructor

General Information

Commonwealth Coders & Cyber is a Coding with AI and Cybersecurity training academy that teaches in demand tech skills using the most relevant and industry guided curriculum through an immersive 12-Week/24-week learning model taught by industry professionals and experienced instructors.

Commonwealth Coders & Cyber Vision

Commonwealth Coders & Cyber seeks to make a positive impact on both the tech and social sectors of the State of Kentucky.

Social Sector Impact



Elevating the underemployed unemployed



Breaking down barriers to entry in the IT sector



Creating diversification in the tech sector



Strengthen the middle class



Decrease reliance on government assistance



Increase individual independence



Providing alternative education pathways

Tech Sector Impact



Curb the demand for tech talent



Make Kentucky appealing for tech expansion



Fill the tech talent gap

Commonwealth Coders & Cyber Mission

Commonwealth Coders & Cyber seeks to enhance the technical skill of its students through the use of technology, an immersive learning methodology, collaboration, communication and creativity that prepares them for a job in technology upon graduation.



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■ 2024 Course Dates

Cybersecurity, Full-Time:

Spring Classes: April 8th, 2024 - June 28th, 2024

Summer Classes: July 22nd, 2024 - October 11th, 2024

Fall I Classes: September 3rd, 2024 - November 22nd, 2024

Fall II Classes: October 14th, 2024 - January 17th, 2025

Winter I Classes: December 2nd, 2024 - March 7th, 2025

Winter II Classes: January 21st, 2025 - April 11th, 2025

Cybersecurity, Part-Time:

Spring Classes: April 8th, 2024 - September 20th, 2024

Summer Classes: July 22nd, 2024 - January 17th, 2024

Fall Classes: October 14th, 2024 - April 11th, 2025

Winter Classes: January 21st, 2025 - July 3rd, 2025

Coding With AI, Full-Time:

Spring Classes: April 8th, 2024 - June 28th, 2024

Summer Classes: July 22nd, 2024 - October 11th, 2024

Fall Classes: October 14th, 2024 - January 17th, 2025

Winter Classes: January 21st, 2025 - April 11th, 2025

Commonwealth Coders & Cyber Scheduled Holidays:

New Years, Week of January 1st

Martin Luther King Day, January 15th

Memorial Day, May 27th

Juneteenth, June 19th

Independence Day, July 4th

Labor Day, September 2nd

Thanksgiving, November 28th

Christmas, Week of December 25th



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■ Administrators & Tuition

Commonwealth Coders & Cyber's Admissions Team is available to help you through the assessment, admissions, financial and enrollment process.

The team can also assist you with:

- Assessing your technical aptitude and fit for a Commonwealth Coders & Cyber program
- Determining which program is the right for your interest and career goals
- Completing your application process
- Program financing options

To talk with one of our Admissions Representatives, please email helshamy@commonwealthcodersandcyber.com

We don't transfer credits from previous training or experience. Our classes will not transfer as credit hours with other institutions.

Tuition Amount

Total Cost

\$9,500

*Tuition payment in full is due prior to the first day of class

Cancellation & Tuition Refund Policy

This enrollment agreement may be canceled within five calendar days after the date of signing provided that the school is notified of the cancellation in writing.

In the event of a cancellation, Commonwealth Coders & Cyber will refund all tuition paid pursuant to the enrollment agreement. The stated refund will be made no later than thirty days after written cancellation in accordance with Ohio Administrative Code 3332-1-10.

This provision shall not apply if the student has already started academic classes.

Tuition in full is due prior to the first day of class. Students are eligible for a complete tuition refund up to the end of Day 5 of classroom instruction, provided that Commonwealth Coders & Cyber is notified by the student in writing prior to the deadline. On Day 6 of classroom instruction, students are committed to paying Phase 1 tuition in full; unless they are counseled out of the program due to poor performance. In the event of poor performance.

Upon completion of Phase 1, students have until the end of the first day of class in Phase 2 to withdraw from the program in writing for a full refund of Phase 2 and Phase 3 tuition. If students are counseled out due to poor performance, students will be refunded Phase 3 tuition.

Upon the completion of Phase 2, students have until the end of the first day of class in Phase 3 to withdraw in writing from the program for a refund of Phase 3 tuition. Commonwealth Coders & Cyber will refund tuition in accordance with the aforementioned refund policy no later than thirty days after the student withdraws from the program.



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■ Academic Standards

Commonwealth Coders & Cyber programs are conducted using a pass/fail grading system.

The following criteria are used to determine a pass or fail grade for the program. These same criteria are utilized to identify students who may need to be removed from a Commonwealth Coders & Cyber program or flexed to an alternate learning path.

■ Homework

Students are expected to complete all assignments by the assigned due date. Students who do not deliver projects on time will be counseled by the lead instructor.

The purpose of the counseling is to identify any obstacles or barriers to project completion or gaps in learning. Students will be retrained on any identified learning shortfalls and given an alternate project due date.

Students who do not complete required projects and assignments by the end of each phase may be removed from the program.

■ Daily Evaluations

Lead instructor will conduct daily student progress reports with teaching assistants to assess each student and their progress through the curriculum to identify those who are struggling to understand program concepts.

Struggling students will receive extra attention, additional learning resources and one-on-one training with a TA or instructor. Students who consistently struggle but demonstrate a good attitude and work ethic would be our best candidates to flex into an alternative learning path.

■ Attitude

Students are expected to be professional, polite, courteous and focused. Students who are disruptive, disrespectful and/or unprofessional may be asked to leave the program.

■ Attendance

Student will be required to sign-in at the beginning of each class and maintain a 90% attendance rate. Misrepresentation of your attendance is considered a violation of your enrollment and you will be withdrawn from the program.

Your dismissal due to misconduct will automatically disqualify you from any refund.

Students unable to maintain a 90% attendance rate or who are habitually tardy, may be asked to withdraw from the program.

Additionally, a 90% attendance minimum is required to graduate from program.

If an unforeseen personal circumstance requires you to be late or miss a class, contact Commonwealth Coders & Cyber through instant messaging, email or phone call as soon as possible. Any missed class time, unless otherwise approved in writing by the lead instructor, is considered an absence.

■ Quizzes

Quizzes will be given at least 2-3 times a week to evaluate student comprehension of subject matter. Students who struggle with quizzes but show good work-ethic and attitude may be encouraged to flex to an alternative learning program.

■ Self-Evaluate

At the end of the third week of training, students will be asked to evaluate their progress through Phase 1 of the program. In consultation with the lead instructor, students may elect to pursue an alternate learning program option.



■ Complaint & Grievance Procedures

All student complaints should be first directed to the school personnel involved. If no resolution is forthcoming, a written complaint shall be submitted to the director of the school.

Whether or not the problem or complaint has been resolved to his/her/their satisfaction by the school, the student may direct any problem or complaint to:

Filing a complaint with the KCPE

**** Students that live in the State of Kentucky please be notified of the Student Protection Fund and the filing process.**

Existence of the Kentucky Student Protection Fund

Pursuant to KRS 165A.450 All licensed schools, resident, and nonresident, shall be required to contribute to a student protection fund. The fund shall be used reimburse eligible Kentucky students, to pay off debts, including refunds to students enrolled or on leave of absence by not being enrolled for one (1) academic year or less from the school at the time of the closing, incurred due to the closing of a school, discontinuance of a program, loss of license, or loss of accreditation by a school program.

Process for Filing a Claim Against the Student Protection Fund.

To file a claim against the Kentucky Student Protection Fund, each person filing must submit a signed and completed Form for Claims Against the Student Protection Fund, Form PE-38, 2017 and provide the requested information to the following address:

**Kentucky Commission on Proprietary Education
500 Mero Street, 4th Floor
Frankfort, KY 40601**

The form can be found on the website at <http://www.kcpe.ky.gov/>.

Filing a Complaint with the Kentucky Commission on Proprietary Education

To file a complaint with the Kentucky Commission on Proprietary Education, a complaint shall be in writing and shall be filed on Form PE-24, 2017 Form to File a Complaint, accompanied, if applicable, by Form PE-25, Authorization for Release of Student Records. The form may be mailed to the following address:

**Kentucky Commission on Proprietary Education
500 Mero Street, 4th floor
Frankfort, Kentucky 40601**

The form can be found on the website at <http://www.kcpe.ky.gov/>.

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Course Offerings



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Course Offerings

Coding With AI

12/24 Week Immersive Program

Length

600 Total Course Hours 60
Classroom Days
Full Time - 9am-5pm, M-F,
except on published holidays

Prerequisite

4 hours of pre-work
required before starting
the program.

Course Requirements

Attendance

Daily with a 90% in-class
attendance requirement
60% or higher on all
classwork, quizzes, and test.

Computer

You will need to bring your
own computer with you to
this program. Please consult
with a Commonwealth
Coders & Cyber reps for
hardware specifications
and needed software.

Coding With AI focuses on using integration for business solutions and the application of essential tech. The Commonwealth Coders & Cyber 3-phase course focuses on the core concepts and the basic principles of Coding With AI. In the Phase 1, Fundamentals of Coding, students are taught languages of development, CSS, HTML, JavaScript, and Bootstrap. During this process each student creates their personalized Web Portfolio. Then they move on to Phase 2, Full Stack Development, which entails learning more JavaScript techniques, building dynamic and powerful apps using React.JS (Facebook/Meta), Node, creating back-end servers and APIs in JavaScript using Express.JS, and React.JS software stack for building dynamic sites and applications. In this phase each student will create their own working website with the functions they have learned. With the first 2 phases our students learn how to read code, create, and perform maintenance on websites. In Phase 3, our students master how to prompt AI to create a website and how to make these websites an active site. Once the sites are active, our students learn how to fix, update and maintain the site to keep it operational. JavaScript is the base of all 3 phases of our Coding With AI Program. This long used object-oriented language, most frequently utilized as the scripting language with a dynamic semantics, is used for general-purpose programming.

Tuition Amount

Total Cost

\$9,500

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Program Curriculum

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Phase 1: Fundamentals of Coding

WEEK 1	HTML	Learning the basics of HTML, the essential language of the web.
	Website Styling	Learn and practice the fundamentals of CSS to add beautiful styling to your webpages.
	Get a Grip on Git	Learn to save and manage different versions of your code projects with this essential tool.
	Know Your Command Line	Discover the power of this simple yet essential text-based tool and increase your productivity as a developer.
WEEK 2	Advanced Design with Bootstrap	Learn CSS techniques for more interesting sites: display positioning, colors, typography, responsive design, and flexbox.
WEEK 3	Intro to JavaScript	Learn the fundamentals of JavaScript: syntax, variables, conditionals, and functions.
	JavaScript: Arrays, Loops, and Objects	Discover more JavaScript techniques and features including arrays, looping, and objects
WEEK 4	Interactive JavaScript Websites	Learn the Document Object Model, the interface between JavaScript and HTML elements, and combine HTML, CSS, and JavaScript into exciting interactive sites.

Phase 2: Full Stack Development

WEEK 5	Intermediate JavaScript	Learn more techniques to extend your JavaScript knowledge including reusable classes, splitting code into modules, and making HTTP requests.
WEEK 6	Intro to Building Front-end Applications with React	Learn to build dynamic and powerful web apps using React.js, a component-based front-end framework.
WEEK 7	Intermediate Building Front-end Applications with React	Build dynamic and powerful web apps using React.js, a component-based front-end framework.
WEEK 8	Intro to Node	Learn how to make a front-end with react components and NPM (Node Package Module)
	JavaScript Back-End Development/Team Git	Learn how to create back-end servers and APIs in JavaScript using the popular Express.js framework.
	MERN Stack	ReactJS software stack for building dynamic web sites and web applications. Because all components of the MERN stack support programs that are written in ReactJS, MERN applications are written in one language for both server-side and client-side execution.



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Program Curriculum

Phase 3: Coding With AI

WEEK 9	Introduction to Python and Supervised Learning	Get started with Python programming and learn about supervised learning basics, including linear and logistic regression.
WEEK 10	Unsupervised Learning and Neural Networks	Explore unsupervised learning methods like K-Means Clustering and start understanding neural networks.
WEEK 11	Reinforcement Learning and Model-Based Development	Dive into reinforcement learning concepts, including Markov Decision Processes, and learn about model-based development.
WEEK 12	Deep Learning and Project Development	Delve into deep learning with recurrent neural networks (RNNs), grasp policy gradient methods, and apply your skills to real-world project development.

“

I gained so many skills and actually enjoyed being back in school! The coursework was challenging enough without being infuriating and the ability to go at my own pace was priceless. I'm so glad I opted for [this program].”

-Rachel



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Course Offerings

Cybersecurity

12/24 Week Immersive Program

Length

600 Total Course Hours 60 Classroom Days
Full Time - 9am-5pm, M-F, except on published holidays
Part Time - 6pm-9pm, M-Th, except on published holidays

Prerequisite

4 hours of pre-work required before starting the program.

Course Requirements

Attendance

Daily with a 90% in-class attendance requirement 60% or higher on all classwork, quizzes, and test.

Computer

You will need to bring your own computer with you to this program. Please consult with a Commonwealth Coders & Cyber reps for hardware specifications and needed software.

Cybersecurity focuses on using integration for business solutions and the application of essential tech. The Commonwealth Coders & Cyber 3-phase course focuses on the core concepts and the basic principles of Cybersecurity. In the first phase, IT Support, students are taught about the ins and outs of a computer, how to take a computer apart, repair, and rebuild to make it function properly again. With this our students can troubleshoot issues with software and hardware. Then they move on to Phase 2, Network Support, that entails students are taught how to make computers, servers, and networks all communicate. Our students learn about the networking process, the differences between networking wires, how to create networking wires, and how to install a networking system. In Phase 3, Security Support, our students put the first two phases together and learn the fundamentals of security such as: analyze and interpret output from security technologies, purpose for frameworks, implement secure system design, differences of basic MS Window OS security settings, basic concepts of forensics, disaster recovery and continuity of operations.

This 12- or 24-weeks course prepares student for CompTIA IT Fundamentals, A+, Network + or Security + certifications.

Tuition Amount

Total Cost

\$9,500

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Program Curriculum

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Phase 1: IT Support

WEEK 1	Install & Configure	Learn to install and configure laptop hardware components.
	Mobile Devices	Learn the characteristics of various mobile devices.
	Connections & Ports	Learn to connect and configure mobile device accessories and ports.
	Mobile Device Connectivity	Configure basic mobile device network connectivity and application support.
	Mobile Device Synchronization	Learn methods to perform mobile device synchronization.
	TCP & UDP	Learn the difference between TCP and UDP ports, protocols and purposes.
	Network Hardware	Learn common networking hardware devices.
	SOHO Network	Learn to install and configure a basic wired and wireless SOHO network.
	Network Host	Learn the properties and purposes of service provided by network host.
	Network Configurations	Learn common network configuration concepts and features.
	Cable & Connector Types	Learn the basic cable types, features and purpose and their associated connectors
	RAM Installation	Learn to install various types of RAM.
	Storage Devices	Learn to select, install and configure various storage devices.
	Motherboards & CPUs	Learn to install motherboards, CPUs and add-on cards to a device.
WEEK 2	Peripherals	Learn the purposes and uses of various peripheral types.
	Power Supply	Learn to install various types of RAM.
	Devices & Printers	Learn to the concepts of common devices and configure SOHO multifunctional devices/printers and settings.
	Cloud Computing	Learn the concepts of cloud computing.
	Client-Side Virtualization	Learn to set up and configure client-side virtualization.
	Basic Troubleshooting	Learn the best practices and methodologies to resolve common problems.
Motherboard CPU, RAM and Power Supply Troubleshooting	Learn specific techniques for troubleshooting motherboards, CPUs, RAM and Power Supplies.	
Troubleshooting Hard drives and RAID Arrays	Learn specific techniques to troubleshoot hard drives and RAIDs.	
Video & Display Troubleshooting	Learn to troubleshoot video, projectors and display issues.	



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Program Curriculum (Con't)

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WEEK 2 (CONT.)	Troubleshooting Mobile Devices	Learn to troubleshoot common mobile device issues and apply the appropriate procedure.
	Common Operating Systems	Learn common operating system types and their purposes.
	Microsoft Windows	Learn the differences between various version of Microsoft Windows.
	OS Installation	Understand the concepts of OS installation and upgrade methods.
	Command Lines	Learn the use of Microsoft command line tools.
	Control Panel	Learn the functionality of the Microsoft Windows Control Panel.
	MS Networking	Learn to configure Microsoft Windows networking on a client/desktop.
	Mac iOS	Learn the features and tools of Mac iOS.
	Linux	Learn the features of a Linux client/desktop operating system.
WEEK 3	Logical Security	Learn the concepts of logical security.
	Wireless Security	Learn about wireless security protocols and authentication methods.
	Malware	Learn to detect, remove and prevent malware using the appropriate tools and methods.
	Threats	Learn the concepts of social engineering, threats and vulnerabilities.
	MS Windows Security	Learn the differences of basic MS Windows OS security settings.
	Workstation Security	Learn to implement the best security practices for workstations.
	Mobile Security	Learn to implement the best security practices for mobile devices.
	Data Disposal	Learn to implement the appropriate date destruction and disposal methods.
	SOHO Security	Learn to configure security on SOHO wired and wireless networks.
	MS Windows OS	Learn to troubleshoot common issues on MS Windows
Security Practices & Documentation	Learn the best practices associated with appropriate incident documentation.	
WEEK 4	Disaster Recovery	Learn to implement the basic disaster prevention and recovery methods.
	Environmental Controls	Learn the impact of the environment on devices and networks & how to apply the appropriate control measures
	Network Misuse	Learn the process of addressing prohibited content and activities.
	Policies	Learn the policies on user privacy and software licensing.
	Remote Access	Learn to use remote access technologies.

Phase 2: Network Support

WEEK 5	Networking Ports & Protocols	Learn the purposes and uses of ports and protocols.
	OSI Models	Build an understanding of the OSI layers of devices, applications, protocols and services.
	Routing & Switching	Learn the concepts and characteristics of routing and switching.
	IP Address Components	Learn to configure the appropriate IP address components.
	Network Topologies	Compare and contrast the characteristics of network topologies, types and technologies.
	Wireless Configuration	Learn to implement the appropriate wireless technologies and configurations.
	Cloud Concepts	Learn the foundations of cloud computing and its protocols.
WEEK 6	Network Services	Learn the functions of network services and their purpose.
	Cabling	Learn the basics of deploying the appropriate cabling solution.
	Placement of Network Devices	Learn the appropriate placement of network devices on a network and how to install and configure them
WEEK 7	Advanced Network Devices	Learn the appropriate placement of network devices on a network and how to install and configure them
	Virtualization	Learn purpose of virtualization and network storage technologies.
	WAN	Compare and contrast different WAN technologies.
	Network Documents & Diagrams	Create the appropriate documentation and diagrams to manage a network.
WEEK 8	Disaster Recovery Concepts	Compare and contrast business continuity and disaster recovery concepts.
	Scanning, Monitoring, & Patching Process	Learn the common scanning, monitoring and patching processes and summarize their expected outputs.
	Remote Access Methods	Learn the purpose and use of remote access methods.
	Policies & Best Practices	Identify the best cybersecurity policies and practices for your organization.
	Analyze Malware Indicators	Learn to analyze indicators of compromise and determine the type of malware.
WEEK 8	Types of Attacks	Compare and contrast different types of cyberattacks.
	Threat Vectors	Learn to identify various threat actors and their modus operandi.
	Penetration Testing Concepts	Learn the concepts of different types of penetration testing.
	Vulnerability Scanning Concepts	Learn the concepts and functionality of vulnerability scanning.
Types & Impacts of Vulnerabilities	Learn the impact associated with different types of cyber vulnerabilities.	



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Program Curriculum (Con't)

Phase 3: Security Support

WEEK 9	Network Concepts	Learn to install and configure both hardwired and software-based network components, to support your organizations cyber security.
	Organizational Security	Learn to identify the appropriate software tools to assess the security posture of your organization.
	Common Security Issues	Learn to identify and troubleshoot common cyber security issues.
	Analyze & Interpret Output from Security Tools	Learn to analyze and interpret output from security technologies.
	Deploy Mobile Device Security	Learn to deploy and secure mobile devices.
	Implement Secure Protocols	Learn to implement security protocols.
	Secure Configuration Guides	Learn use cases and purposes for frameworks, along with best practices and secure configurations.
WEEK 10	Secure Network Architecture	Learn to develop and implement secure network architecture concepts.
	Secure System Design	Learn to implement secure systems design.
	Secure Staging Deployment Concepts	Learn the differences of basic MS Windows OS security settings.
	Embedded Systems	Learn the security implications of embedded systems.
	Application Development & Deployment	Learn to implement the best security practices for mobile devices.
	Cloud & Virtualization Concepts	Learn to implement the appropriate data destruction and disposal methods.
	Resiliency & Automation Strategies	Learn how resiliency and automation strategies reduce risk.

WEEK 11	Physical Security Controls	Learn to importance of proper physical security controls and how to implement them.
	Identity & Access Management Concepts	Compare and contrast different types of cyberattacks.
	Identity & Access Services	Learn to install and configure identity and access control services.
	Identity & Access Management Controls	Learn implement identity access management controls.
	Common Account Management Practices	Learn to differentiate between common account management practices.
	Policies, Plans, Procedures for Organizations	Learn to importance of policies, plans, and procedures related to organizational security.
	Business Impact Analysis Concepts	Learn to install and configure both hardwired and software-based network components, to support your organizations cyber security.
WEEK 12	Risk Management Process & Concepts	Learn the concepts the risk management process.
	Incident Response Procedures	Learn to develop and implement incident response procedures.
	Basic Concepts of Forensics	Learn the basic concepts of cybersecurity forensics and how to analyze them.
	Disaster Recovery & Continuity of Operations	Learn the concepts of disaster recovery and the continuity of operations.
	Types of Controls	Learn to compare and contrast various types of cybersecurity control tools.
Data Security & Privacy Practices	Learn to implement organizational data security and privacy practices.	
Basic Concepts of Cryptography	Learn the basic concepts of cryptography and its purpose.	
Basic Cryptography Algorithms	Learn cryptography algorithms and their basic characteristics.	
Wireless Security	Learn to install and configure wireless security settings for optimal performance.	
Public Key Infrastructure	Learn to properly implement public key infrastructure.	

Ready to begin?

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