

Career Path Syllabus: IT and Cybersecurity Foundations

Last Updated: July 2023

Career Path Description

Get everything you need to start your cybersecurity career journey, and stop wasting your time (and money) sorting through unreliable information from questionable sources. While this industry offers very lucrative career opportunities, finding accurate, relevant information to break into the field can be incredibly frustrating. That's why we've crafted this IT and Cybersecurity Foundations path, featuring thoughtful, bite-sized content from expert instructors covering core concepts found across all cybersecurity roles. These instructors have helped thousands of other beginners grasp essential IT and cybersecurity topics. Get ready to take your first steps into cybersecurity by diving into core concepts needed for any cybersecurity role. Build practical skills and gain confidence as you begin your cybersecurity journey.

Career Path Expectations and Goals

We have found the learners who are most successful in the program spend at least 30 minutes on learning a day. Your time is extremely valuable, so if there is a concept you already know, do not hesitate to skip that portion of the curriculum. The purpose of the career path is to ensure you have the knowledge/skills/abilities needed for the role. If you already have them, there is no need to duplicate efforts.

Career Paths can contain courses, labs, and assessments. Using these materials concurrently provides you with both instructional and hands-on experience that will enhance your chances of passing potential certification exams and give you the experience you need for the actual job role.

We also encourage you to engage with mentors and other learners in the Cybrary Insider Pro (CIP) Discord Community. The CIP community members will share the insights they have acquired as they have gone through their journey. In addition, communicating difficult concepts is a learned skill and our community provides a risk-free environment for you to test that skill.

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Career Path Outline

Important note: This syllabus presents Cybrary's suggested way to progress through the career path, but syllabus items do not need to be completed in the order they are listed. You have the freedom to complete items in any order.

IT and Cybersecurity Foundations	Content Type	Difficulty	Duration (Hours)
Careers in Cybersecurity	Course	Beginner	1h
Entry-Level Cybersecurity	Course	Beginner	4h
Wireshark Basics	Lab	Beginner	1h
Network Reference Models	Lab	Beginner	1h
Nmap Basics	Lab	Beginner	1h
Cryptography Basics	Lab	Beginner	1h
Symmetric Cryptography Basics	Lab	Beginner	1h
Asymmetric Cryptography Basics	Lab	Beginner	1h
Cryptographic Hash Functions	Lab	Beginner	1h
Firewall Basics	Lab	Beginner	1h
IDS Basics	Lab	Beginner	1h
Vulnerability Scanner Basics	Lab	Beginner	1h

Total titles: 12

Total learning hours: 15

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