

Cybersecurity Essentials

By Charles J. Brooks, Philip Craig, Donald Short

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An accessible introduction to cybersecurity concepts and practices

Cybersecurity Essentials provides a comprehensive introduction to the field, with expert coverage of essential topics required for entry-level cybersecurity certifications. An effective defense consists of four distinct challenges: securing the infrastructure, securing devices, securing local networks, and securing the perimeter. Overcoming these challenges requires a detailed understanding of the concepts and practices within each realm. This book covers each challenge individually for greater depth of information, with real-world scenarios that show what vulnerabilities look like in everyday computing scenarios. Each part concludes with a summary of key concepts, review questions, and hands-on exercises, allowing you to test your understanding while exercising your new critical skills.

Cybersecurity jobs range from basic configuration to advanced systems analysis and defense assessment. This book provides the foundational information you need to understand the basics of the field, identify your place within it, and start down the security certification path.

- Learn security and surveillance fundamentals
- Secure and protect remote access and devices
- Understand network topologies, protocols, and strategies
- Identify threats and mount an effective defense

Cybersecurity Essentials gives you the building blocks for an entry level security certification and provides a foundation of cybersecurity knowledge

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Editorial Review

About the Author

Charles J. Brooks is co-owner and vice president of Educational Technologies Group Inc., as well as co-owner of eITPrep LLP, an online training company. A former electronics instructor and technical writer with the National Education Corporation, Charles taught and wrote on post-secondary fields including introductory electronics, transistor theory, linear integrated circuits, basic digital theory, and industrial electronics. Charles has authored several books, including seven editions of A+ Certification Training Guide and many other topics.

Philip Craig is the founder of BlackByte Cyber Security, LLC, a consultancy supporting the Pacific Northwest National Laboratory (PNNL) research and national security agendas as well as the National Rural Electric Cooperative Association and National Rural Telecommunications Cooperative. For many years, Phil served as a Sr. Cyber Security Research Scientist at PNNL, where he provided engineering and program management support in the fields of cyber security, supervisory control and data acquisition (SCADA) technologies, computing and communications infrastructure. This included development of complex system and policy solutions in a variety of critical infrastructures including the nuclear power, electric power, and water sectors. Developed and deployed both strategic and tactical cyber security defensive solutions for the electric power and nuclear sectors.

Donald Short is the President of One World Telecommunications, Inc., an Internet Service Provider in Kennewick. Don has been has been both a pharmacist and computer scientist for over 35 years working in many programming languages on a variety of network architectures and has developed large and complex online content and learning management systems.

Users Review

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