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The Cybersecurity Body of Knowledge explains the content, purpose, and use of eight knowledge areas that define the boundaries of the discipline of cybersecurity. The discussion focuses on, and is driven by, the essential concepts of each knowledge area that collectively capture the cybersecurity body of knowledge to provide a complete picture of the field. This book is based on a brand-new and up to this point unique, global initiative, known as CSEC2017, which was created and endorsed by ACM, IEEE-CS, AIS SIGSEC, and IFIP WG 11.8. This has practical relevance to every educator in the discipline of cybersecurity. Because the specifics of this body of knowledge cannot be imparted in a single text, the authors provide the necessary comprehensive overview. In essence, this is the entry-level survey of the comprehensive field of cybersecurity. It will serve as the roadmap for individuals to later drill down into a specific area of interest. This presentation is also explicitly designed to aid faculty members, administrators, CISOs, policy makers, and stakeholders involved with cybersecurity workforce development initiatives. The book is oriented toward practical application of a computing-based foundation, crosscutting concepts, and essential knowledge and skills of the cybersecurity discipline to meet workforce demands. Dan Shoemaker, PhD, is full professor, senior research scientist, and program director at the University of Detroit Mercy's Center for Cyber Security and Intelligence Studies. Dan is a former chair of the Cybersecurity & Information Systems Department and has authored numerous books and journal articles focused on cybersecurity. Anne Kohnke, PhD, is an associate professor of cybersecurity and the principle investigator of the Center for Academic Excellence in Cyber Defence at the University of Detroit Mercy. Anne's research is focused in cybersecurity, risk management, threat modeling, and mitigating attack vectors. Ken Sigler, MS, is a faculty member of the Computer Information Systems (CIS) program at the Auburn Hills campus of Oakland Community College in Michigan. Ken's research is in the areas of software management, software assurance, and cybersecurity.

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A Guide to the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework (2.0) presents a comprehensive discussion of the tasks, knowledge, skill, and ability (KSA) requirements of the NICE Cybersecurity Workforce Framework 2.0. It discusses in detail the relationship between the NICE framework and the NIST's cybersecurity framework (CSF), showing how the NICE model specifies what the particular specialty areas of the workforce should be doing in order to ensure that the CSF's identification, protection, defense, response, or recovery functions are being carried out properly. The authors construct a detailed picture of the proper organization and conduct of a strategic infrastructure security operation, describing how these two frameworks provide an explicit definition of the field of cybersecurity. The book is unique in that it is based on well-accepted standard recommendations rather than presumed expertise. It is the first book to align with and explain the requirements of a national-level initiative to standardize the study of information security. Moreover, it contains knowledge elements that represent the first fully validated and authoritative body of knowledge (BOK) in cybersecurity. The book is divided into two parts: The first part is comprised of three chapters that give you a comprehensive understanding of the structure and intent of the NICE model, its various elements, and their detailed contents. The second part contains seven chapters that introduce you to each knowledge area individually. Together, these parts help you build a comprehensive understanding of how to organize and execute a cybersecurity workforce definition using standard best practice.

Software is essential and pervasive in the modern world, but software acquisition, development, operation, and maintenance can involve substantial risk, allowing attackers to compromise millions of computers every year. This groundbreaking book provides a uniquely comprehensive guide to software security, ranging far beyond secure coding to outline rigorous processes and practices for managing system and software lifecycle operations. The book opens with a comprehensive guide to the software lifecycle, covering all elements, activities, and practices encompassed by the universally accepted ISO/IEEE 12207-2008 standard. The authors then proceed document proven management architecture and process framework models for software assurance, such as ISO 21827 (SSE-CMM), CERT-RMM, the Software Assurance Maturity Model, and NIST 800-53. Within these models, the authors present standards and practices related to key activities such as threat and risk evaluation, assurance cases, and adversarial testing. Ideal for new and experienced cybersecurity professionals alike in both the public and private sectors, this one-of-a-kind book prepares readers to create and manage coherent, practical, cost-effective operations to ensure defect-free systems and software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Cyber Security Engineering is the definitive modern reference and tutorial on the full range of capabilities associated with modern cyber security engineering. Pioneering software assurance experts Dr. Nancy R. Mead and Dr. Carol C. Woody bring together comprehensive best practices for building software systems that exhibit superior operational security, and for considering security throughout your full system development and acquisition lifecycles. Drawing on their pioneering work at the Software Engineering Institute (SEI) and Carnegie Mellon University, Mead and Woody introduce seven core principles of software assurance, and show how to apply them coherently and systematically. Using these principles, they help you prioritize the wide range of possible security actions available to you, and justify the required investments. Cyber Security Engineering guides you through risk analysis, planning to manage secure software development, building organizational models, identifying required and missing competencies, and defining and structuring metrics. Mead and Woody address important topics, including the use of standards, engineering security requirements for acquiring COTS software, applying DevOps, analyzing malware to anticipate future vulnerabilities, and planning ongoing improvements. This book will be valuable to wide audiences of practitioners and managers with responsibility for systems, software, or quality engineering, reliability, security, acquisition, or operations. Whatever your role, it can help you reduce operational problems, eliminate excessive patching, and deliver software that is more resilient and secure.

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