



# Understanding and Conducting Information Systems Auditing + Website (Wiley Corporate F&A)

By Veena Hingarh, Arif Ahmed

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### A comprehensive guide to understanding and auditing modern information systems

The increased dependence on information system resources for performing key activities within organizations has made system audits essential for ensuring the confidentiality, integrity, and availability of information system resources. One of the biggest challenges faced by auditors is the lack of a standardized approach and relevant checklist. *Understanding and Conducting Information Systems Auditing* brings together resources with audit tools and techniques to solve this problem.

Featuring examples that are globally applicable and covering all major standards, the book takes a non-technical approach to the subject and presents information systems as a management tool with practical applications. It explains in detail how to conduct information systems audits and provides all the tools and checklists needed to do so. In addition, it also introduces the concept of information security grading, to help readers to implement practical changes and solutions in their organizations.

- Includes everything needed to perform information systems audits
- Organized into two sections—the first designed to help readers develop the understanding necessary for conducting information systems audits and the second providing checklists for audits
- Features examples designed to appeal to a global audience

Taking a non-technical approach that makes it accessible to readers of all backgrounds, *Understanding and Conducting Information Systems Auditing* is an essential resource for anyone auditing information systems.

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**Understanding and Conducting Information Systems Auditing + Website (Wiley Corporate F&A) By Veena Hingarh, Arif Ahmed Bibliography**

- Sales Rank: #2178881 in eBooks
- Published on: 2013-01-30
- Released on: 2013-01-30
- Format: Kindle eBook

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## **Editorial Review**

From the Inside Flap

The increased dependence on information systems assets for performing critical functions of an organization has enhanced the need for using an information systems audit as a control to ensure confidentiality, integrity, and availability of information systems resources. But in order to achieve these goals, auditors in this field face some difficult challenges, including the absence of a standardized audit approach and the lack of relevant checklists.

As experts in the information systems arena, authors Veena Hingarh and Arif Ahmed are quite familiar with these important issues. And now, with *Understanding and Conducting Information Systems Auditing*, they share their valuable insights with you.

Divided into two comprehensive parts, this practical guide focuses on the subject of information systems audit as one driven by management—not technology.

**Part One** skillfully provides the knowledge that all information systems auditors must have to effectively perform their job. The ten chapters included here progressively build up your competence for conducting a real-life information systems audit as they cover everything from hardware and software security issues to business continuity and disaster recovery plans.

**Part Two** of the book explains the process involved in conducting an ISecGrade audit for awarding security grade to an auditee and contains forty domain-specific checklists under the ISecGrade methodology—a proprietary open source information systems audit methodology developed by the South Asian Management Technologies Foundation. Various checklists, regulatory guidelines, and best practice standards were consulted to develop these checklists as well as the authors' personal experiences with conducting information systems audits.

Complete with the most up-to-date information you need to understand the subject, definitions of technical terms, checklists to conduct audits, and a session quiz to review the level of your understanding, this book is an indispensable resource for the information systems practitioner and aspiring professional.

Engaging and accessible, *Understanding and Conducting Information Systems Auditing* will help you make information technology installation across the world more secure.

From the Back Cover

"This comprehensive book forms a basis for new auditors as well as experienced auditors working within an IT environment. Covering, as it does, such aspects as hardware and software security, the conducting of an information systems risk-based audit, as well as business continuity and disaster recovery planning, it acts as a reference manual as well as an instruction manual. Some of the focal areas such as security testing and vulnerability analysis are of particular benefit to the auditor, and the inclusion of ISecGrade Checklists makes this a must-have addition to any IT auditor's library."

—**Richard Cascarino**, MBA, CIA, CRMA, CFE, CISM

"Network security among organizations remains a major challenge in the evolution of the digital economy. If it were simply a technology issue the organizations could rely on IT engineers to deploy marvels of technological excellence. But ensuring continuous security is more than a mere technical matter. The authors, who are an extraordinary blend of accounting professionals with rich international experience and network security experts (CISA certified), have superbly deployed their own professional expertise to bring out a practical guide to organizational security in the digital economy. Like a master blender they have provided a rich interdisciplinary perspective with centrality of managerial responsibility. The central theme is that both technological design and managerial systems must continuously evolve in tandem. The book will be an invaluable guide for such organizations that are looking to enhance their management control systems and dynamically evolve along with technological change."

—**Anil Rawat**, PhD, Director, Institute of Business Management & Technology; Director, International Academy for Knowledge, Innovation & Technology Management, Bangalore

"A balanced and practical book that covers all the key elements of information security. While it is an ideal reference for IS/IT managers, auditors, and chartered accountants, the book does not lose relevance for the practitioners of IS, and keeps up to the demands of business and industry by addressing current management and auditing techniques of information security. The templates available in the book are especially useful for quick, out-of-the-box implementation of an in-house or external IS audit. It's a reference book, practitioner's handbook, and a textbook on IS audit rolled into one!"

—**Mridul Banerjee**, CISM, CRISC

"The authors provide an excellent overview of the information systems audit process, with an emphasis on today's evolving newer technologies and issues, such as performing audits in an e-commerce environment and systems security testing. The book is particularly strong in providing good, precise definitions and the audit implications for many of the technology concepts—such as routers, thin clients, or cloud computing—that are frequently used by information system auditors but where accurate definitions are often difficult. This kind of information helps both information system auditing newcomers and experienced professionals.

In addition to a wide range of information systems auditing and risk-based materials, the book has a large section of detailed information systems audit checklists that can be tailored to many environments. The book is an excellent resource for the information systems audit professional."

—**Robert R. Moeller**, CPA, CISA, CISSP, author of multiple books on internal auditing, risk management, and IT governance

#### About the Author

**VEENA HINGARH** is Joint Director of the South Asian Management Technologies Foundation, a center for research, training, and application in the areas of finance and risk management, which provides training in areas including IS auditing, enterprise risk management, and risk modeling. Winner of numerous merit-based awards during her career, Hingarh's major areas of focus are IFRS and IS. She speaks frequently at conferences and platforms throughout Asia and the Middle East. Hingarh is a Chartered Accountant from the Institute of Chartered Accountants of India (ICAI), Certified Company Secretary of the Institute of Company Secretaries of India (ICSI), and Certified Information System Auditor (CISA) from ISACA (USA).

**ARIF AHMED** is a professor at and Director of the South Asian Management Technologies Foundation as well as a Chartered Accountant from the Institute of Chartered Accountants of India (ICAI). He is an

Information Security Management System Lead Auditor for the British Standards Institution. Ahmed's areas of focus are finance and risk management, and he has over two decades of postqualification experience in training and strategic consulting. He has been interviewed and quoted throughout the media and has spoken at various seminars and institutions, including the Institute of Chartered Accountants of India, XLRI, and the Institute of Company Secretaries of India.

## **Users Review**

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#### **Susan Metcalf:**

Reading can be called a head hangout, why? Because when you find yourself reading a book specifically a book entitled *Understanding and Conducting Information Systems Auditing + Website* (Wiley Corporate F&A) your head will drift away through every dimension, wandering in every aspect that maybe not known for but surely can be your mind friends. Imagining every word written in a publication then become one application form conclusion and explanation in which maybe you never get ahead of. The *Understanding and Conducting Information Systems Auditing + Website* (Wiley Corporate F&A) giving you an additional experience more than blown away your thoughts but also giving you useful details for your better life with this era. So now let us explain to you the relaxing pattern at this point is your body and mind is going to be pleased when you are finished studying it, like winning a game. Do you want to try this extraordinary spending spare time activity?

#### **Pearl McLean:**

Your reading sixth sense will not betray you actually, why because this *Understanding and Conducting Information Systems Auditing + Website* (Wiley Corporate F&A) reserve written by well-known writer who really knows well how to make a book that could be understood by anyone who reads the book. Written in a good manner for you, dripping every idea and producing skill only for eliminate your own hunger then you still skepticism *Understanding and Conducting Information Systems Auditing + Website* (Wiley Corporate F&A) as a good book not only by the cover but also with the content. This is one publication that can break don't ascertain a book by its include, so do you still need a different sixth sense to pick this particular!? Oh come on your examining sixth sense already alerted you so why you have to listening to an additional sixth sense.

#### **Martha Albarado:**

In this particular era which is the greater individual or who has ability to do something more are more special than other. Do you want to become one among it? It is just simple strategy to have that. What you are related is just spending your time little but quite enough to experience a look at some books. One of many books in the top record in your reading list is usually *Understanding and Conducting Information Systems Auditing + Website* (Wiley Corporate F&A). This book that is qualified as *The Hungry Mountains* can get you closer in turning out to be a precious person. By looking up and review this e-book you can get many advantages.

**James Robinson:**

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