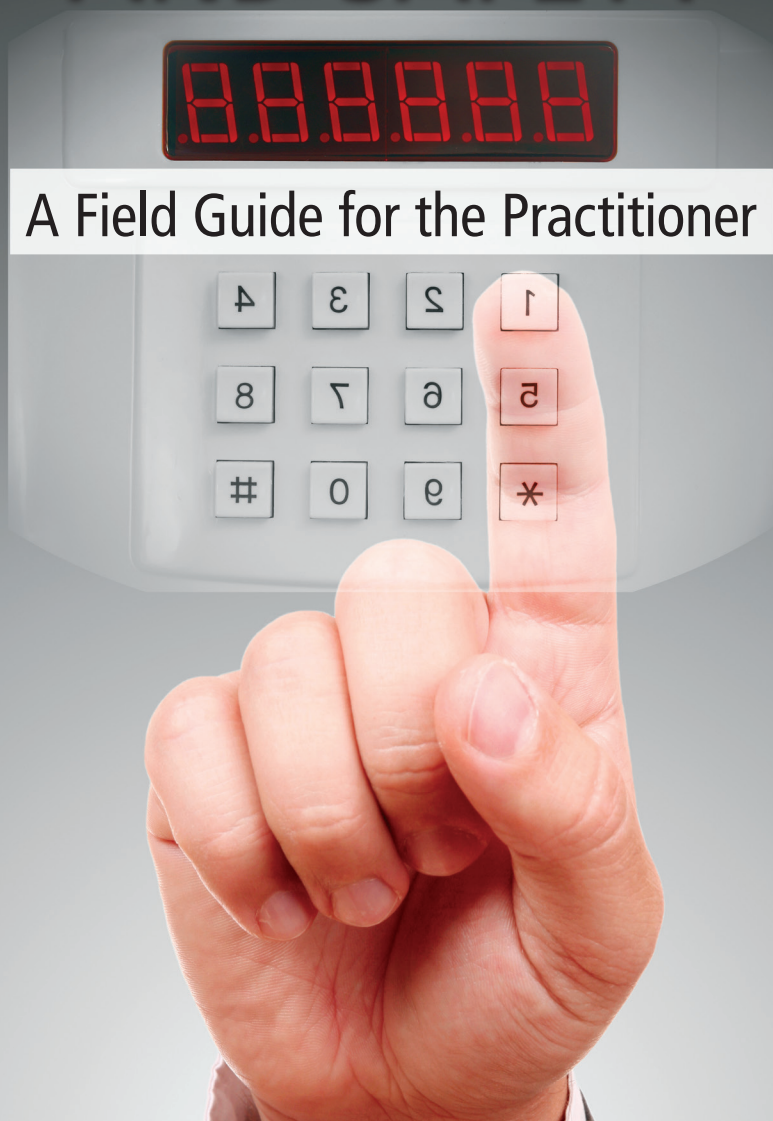


PHYSICAL SECURITY AND SAFETY

A Field Guide for the Practitioner



Edited by
Truett A. Ricks • Bobby E. Ricks • Jeff Dingle

 CRC Press
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Occupational Safety and Health Guide Series

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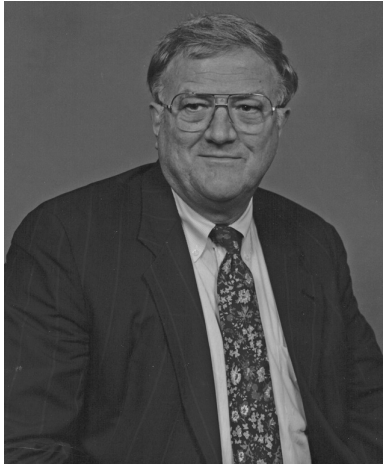
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Truett A. Ricks
1935–2014

As we complete this book, we mourn the passing of Dr. Truett Ricks. This is his seventh book, with six prior books related to physical security and safety. Days before his death, he was collaborating with authors to finalize their chapters and to complete this book. An inspiration to all who knew him, we dedicate this book to his legacy.

Bobby Ricks
Coauthor and son

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Preface

This is a how-to guide written by practicing professionals. The idea for this book is to provide basic yet essential knowledge on facility security measures and how safety considerations interact with security. For the security manager, the book will act as a handbook for security applications with key safety considerations. For the safety manager, the book will act as a handbook of key safety considerations and a reference of security considerations. For the facility manager, the book provides fundamental information for a better understanding of security needs.

The book is broken into two parts: “Security and Safety Planning” and “Infrastructure Protection.”

“Security and Safety Planning” begins with the theory and concepts of security to explore the why of security needs. Threat decomposition, risk assessment, and surveys begin to identify security threats and vulnerabilities so the manager knows what to protect, how to protect it, and how much risk the organization is willing to take to *not* protect organizational assets. The survey process will also identify general safety concerns and specific issues covered by Occupational Safety and Health Administration (OSHA) and fire protection regulations. A survey instrument is included in the book’s appendix. The part ends with a discussion of security policies and procedures for implementing a system and developing an attitude of effective physical security.

Part II begins by looking at the overall physical protection program. Access control, perimeter control, and alarm systems are examined, with information on security lighting and closed-circuit television to complement the physical protection program. Response force models are examined for when circumstances demand an on-site response team. This part concludes with practical considerations for protecting information technology (IT). IT security is explained in terms common to the nontechnical manager and discusses nontechnical measures the security manager can implement to protect IT systems.

About the Authors

The professionals writing this book have years of experience in security and loss prevention, safety, fire protection, law enforcement, homeland security, and law.

Jarred Ball, MS, is a certified law enforcement instructor in homeland security for the Commonwealth of Kentucky. He has a master's degree in safety, security, and emergency management from Eastern Kentucky University and has taught homeland security at the college level. Ball has conducted antiterrorism risk and vulnerability assessments of critical infrastructure for the Commonwealth of Kentucky's Office of Homeland Security.

Jeff Dingle, CPP, is the director of security for PCI Gaming in Atmore, Alabama. He is a former special agent with the National Security Agency, and director of security for the Carter Presidential Library and Home Depot. He has written and taught physical security courses for over 25 years for private companies and the Federal Law Enforcement Training Center (FLETC), being the program manager for the Advanced Physical Security Training Program and the Physical Security Managers Training Program. He has written numerous articles on security and has presented at industry security conferences.

James L. Pharr, MS, is an associate professor of fire and safety engineering technology at Eastern Kentucky University (EKU). Professor

Pharr specializes in fire dynamics, building and life safety, leadership, emergency scene operations, and fire investigation. Prior to joining EKV, Pharr was the emergency management director and fire marshal in Gaston County, North Carolina.

Bobby E. Ricks, JD, is an associate professor at Midway College. He has written books on security and management, and has been teaching security for over 25 years for private companies and for the FLETC. He is a former special agent with the Federal Bureau of Investigation, former director of Crime Prevention for the Richmond, Kentucky, Police Department, and was a member of the U.S. Air Force Security Forces. He has consulted with numerous law firms on security matters.

Truett A. Ricks, PhD, was the retired dean of the College of Justice and Safety at Eastern Kentucky University, and wrote several textbooks on physical security and crime prevention. He was the former owner of a security company and was president of his own consulting firm. He was a certified protection professional (CPP).

Truett Graham Ricks, MBA, works as an IT systems analyst specializing in IT security and the creation and review of IT-related policies. He has experience with a wide range of systems and clients.

Thomas D. Schneid, JD, LLM, is the chair of the Department of Safety and Security in the College of Justice and Safety at Eastern Kentucky University. Tom has worked in the safety and human resources fields for over 30 years at various levels, including corporate safety and industrial relations. In Tom's legal practice, he has represented numerous corporations in OSHA and labor-related litigations throughout the United States. He has authored or coauthored numerous texts on safety and labor law.

Thomas Woodall Sr., is the president of Security Answers, LLC. He is the retired director of the Federal Protective Service for the U.S. General Services Agency. He has conducted numerous security surveys in government and private facilities. He has taught physical security for over 25 years for private companies and at the FLETC, being part of the Curriculum Development Committee for the Advanced Physical Security Training Program at FLETC.

PART I
SECURITY
AND SAFETY
PLANNING

THEORY OF SECURITY

JEFF DINGLE

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Many textbooks date the origin of security back to ancient Egypt or to Europe after the fall of the Roman Empire. The modern era of security began September 11, 2001. Through the years, the United States has remained mostly immune from acts of terrorism, but the single horrific events of 9/11 have shown us the tragic results of what can happen. The events of September 11 caused us to totally rethink our approach to security operations. While many of the threats have not changed, new threats have been added. Today's threats include criminal acts from a variety of sources, both internal and external to an organization. Security operations may protect from a variety of things— theft, arson, acts of violence, vandalism, espionage, domestic violence, and ever-irate customers. Everyone protects what they hold valuable. Homeowners protect their homes, businesses protect their businesses, schools protect against theft and violence, the government protects everything. What varies is the amount of effort that goes into protecting what you have.

Although there have been many different theories, and different people involved, since the beginning security has basically been the same. We look for problems or potential problems, and we look for solutions to those problems. The difficulty is that we look not only for existing problems, but for potential problems that have not yet occurred, so we can take steps to prevent them from happening. It is very difficult in a business environment to spend money to prevent things that have never happened. But that's what we do. It is often better to be proactive and spend a little money now than to be reactive and wait for a problem to occur.

Security is the creation of a circumstance that is problem-free, or a circumstance that results in a minimum of problems. How a person