



# Process Safety: Key Concepts and Practical Approaches

By James A. Klein, Bruce K. Vaughn

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Effective process safety programs consist of three interrelated foundations? safety culture and leadership, process safety systems, and operational discipline? designed to prevent serious injuries and incidents resulting from toxic releases, fires, explosions, and uncontrolled reactions. Each of these foundations is important and one missing element can cause poor process safety performance.

Process Safety: Key Concepts and Practical Approaches takes a systemic approach to the traditional process safety elements that have been identified for effective process safety programs. More effective process safety risk reduction efforts are achieved when these process safety systems, based on desired activities and results rather than by specific elements, are integrated and organized in a systems framework. This book provides key concepts, practical approaches, and tools for establishing and maintaining effective process safety programs to successfully identify, evaluate, and manage process hazards.

It introduces process safety systems in a way that helps readers understand the purpose, design, and everyday use of overall process safety system requirements. Understanding *what* the systems are intended to achieve, understanding *why* they have been designed and implemented in a specific way, and understanding *how* they should function day-to-day is essential to ensure continued safe and reliable operations.

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#### Review

"**Process Safety: Key Concepts and Practical Approaches** is written in language that appeals to a broad spectrum of experience, so that beginners and experts alike can appreciate their role in constructing, operating, and maintaining safe industrial processes. Illustrations are used to develop impressionable lessons that are more likely to be retained. The book applies these illustrations to modern incidents so that the reader can instantly understand the application of process safety principles on the processes they control. By interweaving together process safety principles and their practical application, the book achieves a level of cohesive understanding needed to get results. It bridges together all of the process safety elements into a uniform system that only succeeds when all of the subparts work together as a whole."

?Kenneth Bloch, Marathon Petroleum Company, Texas City, Texas, USA

"...presents a complete and comprehensive introduction to Process Safety. The emphasis given to the importance of plant leadership participation and commitment to Process Safety as a key factor of success is differential from other publications in the area. In addition to covering the fundamentals of Process Safety, the book also includes case studies to illustrate the application and effectiveness of the correct management. ... a must read for process safety engineers, safety professionals, process engineers and process industry plants leadership."

? Eduardo de Maio Francisco, E&I DuPont de Nemours & Co, Brazil

"...an excellent and concise review of process safety management by authors with a wide range of industrial, academic, and consulting experience. It is particularly valuable for readers whose primary job function is not process safety, but rather process research, design, line management, executive management, and other roles which have a significant impact on process safety."

? Dennis C. Hendershot, Independent Process Safety Consultant, Bethlehem, Pennsylvania, USA

"I thought the content was excellent, well presented, and easy to read. I especially liked the sections on how to improve various aspects of process safety, which should prove beneficial to many companies in the process industries."

? Michael P. Broadribb, Baker Engineering & Risk Consultants, Inc., Genoa, Nevada, USA

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