



Guidelines for Preventing Human Error in Process Safety

By Center for Chemical Process Safety (CCPS)

Wiley-AIChE, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: List of Figures and Tables. Preface. Glossary and Acronyms. 1. Introduction: The Role of Human Error in Chemical Process Safety. 1.1 Introduction. 1.2 The Role of Human Error in System Accidents. 1.3 Why Is Human Error Neglected in the CPI? 1.4 Benefits of Improved Human Performance. 1.5 The Traditional and System-induced Error Approach. 1.6 A Demand-Resource Mismatch View of Error. 1.7 A Case Study Illustrating the System-Induced Error Approach. 1.8 From Theory to Practice. 1.9 Appendix Case Studies. 2. Understanding Human Performance and Error. 2.1 Purpose of the Chapter. 2.2 Concepts of Human Error. 2.3 An Overview of the Four Perspectives on Human Error. 2.4 The Traditional Safety Engineering Approach to Accidents and Human Error. 2.5 The Human Factors Engineering and Ergonomics Approach (HF/E). 2.6 The Cognitive Engineering Perspective. 2.7 The Sociotechnical Perspective. 2.8 Summary. 2.9 Appendix 2A. Process Plant Example of the Stepladder Model. 2.10 Appendix 2B. Flowcharts for Using the Rasmussen Sequential Model for Incident Analysis (Petersen, 1985). 2.11 Appendix 2C. Case Study Illustrating the Use of the Sequential Model. 3. Factors Affecting Human Performance in the Chemical Industry. 3.1 Introduction. 3.2 Applications of Performance-Influencing Factors. 3.3 A Classification Structure for Performance-Influencing Factors. 3.4 Operating Environment. 3.5 Task Characteristics. 3.6 Operator Characteristics. 3.7 Organizational and Social Factors. 3.8 Interaction of Performance-Influencing

Reviews

Extensive information for book fans. It is written in basic words and never hard to understand. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Otis Wisoky**

This publication is great. It is full of wisdom and knowledge. You will not really feel monotony at any time of the time (that's what catalogs are for relating to when you ask me).

-- **Dr. Everett Dicki DDS**