

Meraux Refinery Operator Training Program (continued)

Meraux Refinery	Refinery Procedure # TRS-0001	Approved by Carl Zemes	Revision # 3	Date issued 8/31/2011	Supersedes 8/16/2009	Page 4 of 6
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	6	Operator on-the-job training (OJT): Upon successful completion of the BOT Program, employees shall be assigned to a specific work area and shall receive job specific On-The-Job-Training. They shall be supplied with available process flow diagrams, piping and instrument diagrams and operating and emergency procedures. Process Area and Unit Specific Training Manuals accompanied by learning guides and tests shall be used for operator job certification. Each Unit specific training manual shall be written using a similar standardized format and shall include the following: • Introduction including safety, environmental, health, and security • Unit process control and equipment • Procedures: emergency, normal operating, shutdown, startup, and temporary • Walkthroughs • Relevant checklists Training shall be provided regarding process controls and equipment for each area and unit in the plant followed by a test on covered material. An 80% minimum score shall be achieved on each test phase before advancing to the next module. For test failure, feedback, and remediation administrative guidelines see Testing Procedure below. Job techniques that were introduced during the orientation section of this program are applied with the trainer's guidance during OJT. - On-the-job training shall be conducted by the work Area Supervisor assisted by a Chief Operator or a "C" Operator on the job. The trainee shall be required to meet objectives that shall be monitored by the Area Supervisor and shift supervisors. - Weekly training report forms, documenting the trainee's progress, shall be completed by the shift supervisor with copies sent to the Operations Manager and the affected Operations Area Supervisor. - The trainee shall take as much responsibility for the assigned job he or she is being qualified. The chief operator and the operator working the job on-shift have the responsibility to assist the trainee in learning the job and meeting the trainee's objectives. - If the probationary period was not successfully completed, the operator's records and evaluation reports shall be reviewed by the Area Supervisor who shall determine what course of action is required for the operator in training.
	7	Testing Testing is required to verify training effectiveness and to evaluate an employee's qualifications for specific jobs. A variety of testing instruments may be used for measuring trainee's knowledge, skills, and abilities. This may include but is not limited to written and oral tests, hands-on demonstrations, and walkthroughs. Some of these tests may be administered with the aid of audio, visual, and computer equipment. - To assure the trainee's readiness to take over the job, during the on-the-job training period, the Operations Area Supervisor shall test the trainee qualifying for a specific job at each of level of evaluations, which are: • Tests for each objective in the training guide • Test for each module of training, and • Test for the position (composite knowledge test and walk-through). - Should any supervisor feel that the trainee isn't ready to take total responsibility for a job after the on-the-job training period, he or she shall document and discuss possible extension of the on-the-job training period. - In the units, Shift Supervisor, the Operator on shift, and the Chief Operator shall train the Unit Operators. The Chief and Board Operators and the Line 3 operators will be trained by the Operator on shift and the Shift Supervisor. - The progress of the trainee shall be watched closely at this point to determine continuation of training or disqualification. - The trainee shall take over the job after he has successfully completed on-the-job training and scored a minimum of 80% on all testing and 100% on all walkthroughs.

Refinery Operator Training Manual

Frank Lees



Refinery Operator Training Manual:

Process Operations Safety Darryl M. Yoes, 2025-02-05 Provides crucial lessons in process safety operations drawing from 100 global case studies Written from an operator's perspective Process Operations Safety provides valuable information and education on the fundamentals of process operations safety by providing background on process safety and key leading operational management and equipment failures that have led to catastrophic process safety incidents including loss of life Written by an expert with more than five decades of industry experience this book enables readers to learn how simple jobs that they perform every day can lead to catastrophic safety incidents without proper caution protocol and attention A self learning quiz is provided near each chapter's end with answers to all questions provided in the Appendix A listing of additional resources or reference material many with internet links is also included at the end of each chapter Readers will find Principles of process safety properties of hydrocarbons vapor cloud explosions VCE and boiling liquid expanding vapor explosions BLEVE Most frequent causes of significant process safety events in refining and petrochemical industries Causal factors in over 100 global case studies of operations and incidents divided into thirty five subchapters with several examples for each explaining what happened and what could have happened Key lessons learned written in simple terms using descriptions without jargon or complicated formulas Process Operations Safety is an essential learning resource for petroleum refining and petrochemical plant operators line supervisors and critical support staff with field responsibility such as process and mechanical engineers along with advanced students at community and four year colleges and technical trade schools taking a process operations course

Petroleum Refining Design and Applications Handbook, Volume 2 A. Kayode Coker, 2021-04-13 A must read for any practicing engineer or student in this area There is a renaissance that is occurring in chemical and process engineering and it is crucial for today's scientists engineers technicians and operators to stay current This book offers the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without

Occupational Outlook Handbook, 2008 *Hazards of Nitrogen and Other Inert Gases* M. Darryl Yoes, 2025-05-06 An authoritative discussion of safety considerations for professionals and operators working with or around nitrogen and other inert gases In *Hazards of Nitrogen and Other Inert Gases How They Can Be Safely Managed* experienced refinery supervisor and manager M Darryl Yoes delivers a thorough discussion of the use of nitrogen and other inert gases in the refining industry and other industries where they are commonly used The author includes a complete exploration of the hazards of working with and around nitrogen as well as case studies of incidents involving nitrogen in both gas and cryogenic forms and other inert gases including carbon dioxide argon and neon Yoes walks readers through the most critical safety aspects of working with asphyxiants such as inert confined space entry and discusses how to avoid and prevent catastrophic

incidents The book offers self quizzes essential terms key workflows and checklists for routine practice Readers will also find A thorough background on nitrogen use and the hazards that flow from working with it Comprehensive explorations of incidents involving asphyxiation hypoxia and cold burns resulting from nitrogen gas and liquid form and other inert gases Practical discussions of the prevention of catastrophic incidents involving inert gases Additional discussions of other inert gases including carbon dioxide and helium Perfect for all operations personnel who work with or around asphyxiants including petroleum refining and petrochemical plant operators line supervisors and process and mechanical engineers this book will also benefit new operators and advanced students learning about or working with nitrogen and other inert gases

Handbook of Sugar Refining Chung Chi Chou,2000-08-14 This book provides a reference work on the design and operation of cane sugar manufacturing facilities It covers cane sugar decolorization filtration evaporation and crystallization centrifugation drying and packaging

Petroleum Refinery Process Modeling Y. A. Liu,Ai-Fu Chang,Kiran Pashikanti,2018-06-05 A comprehensive review of the theory and practice of the simulation and optimization of the petroleum refining processes Petroleum Refinery Process Modeling offers a thorough review of how to quantitatively model key refinery reaction and fractionation processes The text introduces the basics of dealing with the thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling The authors three experts on the topic outline the procedures and include the key data required for building reaction and fractionation models with commercial software The text shows how to filter through the extensive data available at the refinery and using plant data to begin calibrating available models and extend the models to include key fractionation sub models It provides a sound and informed basis to understand and exploit plant phenomena to improve yield consistency and performance In addition the authors offer information on applying models in an overall refinery context through refinery planning based on linear programming This important resource Offers the basic information of thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling Uses the key concepts of fractionation lumps and physical properties to develop detailed models and workflows for atmospheric CDU and vacuum VDU distillation units Discusses modeling FCC catalytic reforming and hydroprocessing units Written for chemical engineers process engineers and engineers for measurement and control this resource explores the advanced simulation tools and techniques that are available to support experienced and aid new operators and engineers

International Handbook on Education in Southeast Asia Lorraine Pe Symaco,Martin Hayden,2021-12-23 This International Handbook provides a detailed account of the education systems of 11 Southeast Asian nations including Brunei Darussalam Cambodia Indonesia Lao People s Democratic Republic Malaysia Myanmar the Philippines Singapore Thailand Timor Leste and Vietnam It presents a systematic sector by sector explanation of how these national education systems deliver educational services and respond to national and international issues and challenges With 56 chapters the International Handbook is the region s most comprehensive

educational reference source In the first of its chapters the editors introduce the regional context and draw attention to the distinctive characteristics of each of the 11 systems Southeast Asia representing 8.5% of the world's population is as dynamic as it is diverse The International Handbook charts progress and establishes a benchmark for documenting future developments It also provides a stepping off point for more detailed investigations of decision making processes and outcomes across the 11 national education systems *Energy Management Handbook for Petroleum Refineries, Gas Processing, and Petrochemical Plants* Gulf Publishing Company, Book Division, 1979 Resources in Education, 1984

Practical Guide to Industrial Boiler Systems Ralph Vandagriff, 2001-04-18 This volume covers the fundamentals of boiler systems and gathers hard to find facts and observations for designing constructing and operating industrial power plants in the United States and overseas It contains formulas and spreadsheets outlining combustion points of natural gas oil and solid fuel beds It also includes a boiler operator's tra Chemical Process Safety Roy E. Sanders, 1999 Chemical Process Safety Learning from Case Histories Fourth Edition gives insight into eliminating specific classes of hazards while also providing real case histories with valuable lessons to be learned This edition also includes practical sections on mechanical integrity management of change and incident investigation programs along with a list of helpful resources The information contained in this book will help users stay up to date on all the latest OSHA requirements including the OSHA required Management of Change Mechanical Integrity and Incident Investigation regulations Learn how to eliminate hazards in the design operation and maintenance of chemical process plants and petroleum refineries World renowned expert in process safety Roy Sanders shows how to reduce risks in plants and refineries including a summary of case histories from high profile disasters and recommendations for how to avoid repeating the same mistakes Following the principles outlined in this text will help save lives and reduce loss *Fire Protection Manual for Hydrocarbon Processing Plants* Charles H. Vervalin, 1985 **Lees' Loss Prevention in the Process Industries** Frank Lees, 2012-11-05 Safety in the process industries is critical for those who work with chemicals and hazardous substances or processes The field of loss prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world and Lees is a detailed reference to defending against hazards Recognized as the standard work for chemical and process engineering safety professionals it provides the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing three volume reference instead The process safety encyclopedia trusted worldwide for over 30 years Now available in print and online to aid searchability and portability Over 3 600 print pages cover the full scope of process safety and loss prevention compiling theory practice standards legislation case studies and lessons learned in one resource as opposed to multiple sources **The John Zink Hamworthy Combustion Handbook** Charles E. Baukal Jr., 2012-12-13

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