

PROCESS PIPING ENGINEERING & DESIGN WITH PDMS & CAESAR II

(FASTTRACK SESSIONS)

PROGRAM DESCRIPTION

This training is aimed at giving participants cutting edge Continuing Professional Development (CPD) in Process Piping based on ASME, ANSI & API Codes. The fast track sessions are designed to deliver all the areas necessary for a career in Process Piping Engineering & Design within 12 days. These sessions are full time and instructor led, quality and details are not compromised on at all, the classes just last for longer periods.

The training presents all the major topics relevant to Detailed Engineering and Layout Design of Piping Systems, Mechanical, Pressure and Hydraulic Design of Process Piping Systems. And it covers elementary topics in fabrication, installation, integrity assessment and maintenance of piping systems. The program is full time instructor based and focused on concept theory, problem solving, system design, drafting and exposure to industry leading Software.

This is both the Best and most Exclusive Training Program in Singapore on the subject that is comprehensive and suitable for both beginners and intermediate level engineers, believing that professionalism is acquired on the job.

For full course description log onto <http://www.mainprops.com/course-2016a.pdf> to download our detailed course outline.

Who Should Attend

- Mechanical/ Chemical/Petroleum Engineers
- Piping Engineers
- Piping Technicians, Fitters and Welders
- Draftsmen

- Piping project supervisors etc.

WHAT YOU SHOULD BRING

Course participants should bring a Laptop computer for CAD practice, a scientific calculator, sketch pad, pen and a note book.

N/B Laptops will be provided for those who do not have, it is however preferred that participants come with theirs as assignment on CAD software will require practice at home for perfection.

MATERIALS - (Your Take Home)

Training Manuals, Full versions of PDMS & CAESAR II, installed on your PC, Process & Piping Engineering Design eBooks, Design Charts & Tables and participants will be awarded **CERTIFICATES** upon Course completion. **Most importantly, we Guarantee Knowledge transfer.**

Training Features

- Instructor lead hands-on training
- Assessment quiz and certificate at completion
- Conducive training environment
- Excellent Material will be Provided
- Industry leading Software (PDMS) used in Training
- Individual Attention

OFFICE ADDRESS: 115, Allen Avenue, Raja Lagis

We look forward to welcoming you on one of our trainings

Process Piping Engineering Design With Pdms Caesar Ii

Us Army Corps Of Engineers



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The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries Geoff B. Barker, 2017-11-25 The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries gives pipeline engineers and plant managers a critical real world reference to design manage and implement safe and effective plants and piping systems for today's operations This book fills a training void with complete and practical understanding of the requirements and procedures for producing a safe economical operable and maintainable process facility Easy to understand for the novice this guide includes critical standards newer designs practical checklists and rules of thumb Due to a lack of structured training in academic and technical institutions engineers and pipe designers today may understand various computer software programs but lack the fundamental understanding and implementation of how to lay out process plants and run piping correctly in the oil and gas industry Starting with basic terms codes and basis for selection the book focuses on each piece of equipment such as pumps towers underground piping pipe sizes and supports then goes on to cover piping stress analysis and the daily needed calculations to use on the job Delivers a practical guide to pipe supports structures and hangers available in one go to source Includes information on stress analysis basics quick checks pipe sizing and pressure drop Ensures compliance with the latest piping and plant layout codes and complies with worldwide risk management legislation and HSE Focuses on each piece of equipment such as pumps towers underground piping pipe sizes and supports Covers piping stress analysis and the daily needed calculations to use on the job

Process Engineering, 1986 *RRB JE Navigator (PYQ & Practice Questions) CBT 2 (Civil Engineering)* Umesh Dhande, 2024-09-23 This comprehensive guide is designed to cater to the growing demand for accurate and concise solutions to RRB JE This book contains 4102 fully solved questions Including 15 PYQ RRB CBT 2 of Electrical Engineering 4 Shifts from RRB 2019 8 Shifts from 2015 and 3 Shifts from 2014 The book's key features include 1 Step by Step Solutions Detailed easy to follow solutions to all questions 2 Chapter Wise and Year Wise Analysis In depth analysis of questions organized by chapter and year 3 Detailed Explanations Clear explanations of each question ensuring a thorough understanding of the concepts 4 Simple and Easy to Understand Language Solutions are presented in a straightforward and accessible manner

Proceedings of the 32nd International Conference on Nuclear Engineering—Volume 7; ICONE 2025, 22-26 June, Weihai, China Sichao Tan, Weiqiang Xu, Yanyan Zhu, 2026-01-01 This is the seventh volume of the proceeding papers from the 32nd International Conference on Nuclear Engineering ICONE 32 This volume covers topics of Track 5 including nuclear safety security and cyber security The ICONE with a history of 35 years was jointly initiated in 1991 by the American Society of Mechanical Engineers ASME and the Japan Society of Mechanical Engineers JSME In 2005 the Chinese Nuclear Society CNS became one of the conference organizers Since then the conference has been co hosted by CNS ASME and JSME with each society taking turns to organize the event annually It stands as the preeminent global forum for nuclear professionals who seek to remain at the forefront of

technological advancements and industry developments The ICONE 32 hosted by CNS took place from June 22 to 26 2025 in Weihai China The proceedings of ICONE 32 summarize the latest advancements in all aspects of nuclear engineering and constitute an invaluable resource for researchers engineers policy makers and graduate students

CEP Software Directory ,1998 *Petroleum Software Directory* ,1998 *Engineering and Design* Us Army Corps Of Engineers,1999-05-01 This United States Army Corps of Engineers USACE Engineer Manual EM 1110 1 4008 provides information for the design of liquid process piping systems *Process Piping Design Handbook: The fundamentals of piping design* Peter Smith,2007 Annotation Written for the piper and engineer in the field this volume fills a huge void in piping literature since the Rip Weaver books of the 90s were taken out of print Focussing not only on Auto CAD but also on other computer aided design programmes as well and manual techniques not found anywhere else the book covers the entire spectrum of needs for the piping engineer Covering general piping systems this basic guide for the piping engineer offers standards in practices for covered in the original Rip Weaver series It is the perfect introduction to the design of piping systems various processes and the layout of pipe work connecting the major items of equipment for the new hire the engineering student and the veteran engineer needing a reference [The Planning Guide to Piping Design](#) Richard Beale,Paul Bowers,2013-11-25 Fresh off of volume two of his piping series Advanced Piping Design Peter Smith has joined forces with skilled consultants to take his piping series to the next level The Planning Guide to Piping Design covers the entire process of planning a plant model project from conceptual to mechanical completion and explains where the piping lead falls in the process along with his roles and responsibilities Piping Engineering Leads or PEL s used to only receive on the job training to learn the operation of producing a process plant Over time more schools and programs have developed a more advanced curriculum for piping engineers and designers However younger generations of engineers and designers are growing up with a much more technological view of piping design and are in need of a handbook that will explain the proven methods of planning and monitoring the piping design in step by step processes This handbook will provide mentors in the process piping industries the bridge needed for the upcoming engineer and designer to grasp the requirements of piping supervision in the modern age

Piping Engineering: From Concept to Construction Charles Nehme, Piping Engineering An Introduction The field of piping engineering is a specialized branch of engineering focusing on the design analysis installation and maintenance of piping systems These systems are vital in various industries such as oil and gas chemical processing power generation water treatment and many more Piping engineers play a crucial role in ensuring the safe and efficient transport of fluids gases and slurries through these systems The Importance of Piping Systems Piping systems form the backbone of industrial infrastructure They are essential for the transport of materials needed for various processes and products A well designed piping system ensures Safety Prevents leaks and failures that could lead to accidents environmental damage or loss of life Efficiency Minimizes energy loss and ensures optimal flow rates reducing operational

costs Reliability Ensures continuous operation with minimal downtime enhancing productivity Compliance Meets industry standards and regulations ensuring legal and environmental adherence Key Responsibilities of a Piping Engineer Piping engineers are tasked with a range of responsibilities including Design and Layout Creating detailed drawings and specifications for piping systems using software tools like AutoCAD PDMS or PDS Stress Analysis Conducting stress analysis to ensure the piping can withstand various pressures temperatures and external forces Material Selection Choosing appropriate materials for pipes fittings and supports based on the type of fluid operating conditions and environmental factors Construction Supervision Overseeing the installation of piping systems to ensure they are built according to design specifications and standards Maintenance and Inspection Developing maintenance schedules and conducting regular inspections to ensure the integrity and performance of piping systems Challenges in Piping Engineering Piping engineers face several challenges that require a combination of technical knowledge problem solving skills and creativity Complex Designs Developing efficient designs for complex industrial plants with numerous interconnected systems Environmental Concerns Ensuring systems are environmentally friendly and comply with stringent regulations Aging Infrastructure Upgrading or maintaining older systems to meet current standards without extensive downtime Technological Advancements Keeping up with new technologies and methods in piping design and analysis The Future of Piping Engineering The field of piping engineering is continuously evolving driven by advancements in technology and changes in industry requirements Future trends include Digital Twin Technology Using digital replicas of physical systems to optimize design and maintenance Sustainable Practices Developing greener piping systems with reduced environmental impact Advanced Materials Utilizing new materials with superior properties to enhance system performance Automation and AI Incorporating automation and artificial intelligence in design analysis and monitoring of piping systems Conclusion Piping engineering is a vital and dynamic field that supports the backbone of industrial operations worldwide As a piping engineer you will be at the forefront of designing and maintaining systems that are crucial for the efficient and safe transport of essential materials This preface aims to provide a foundational understanding of the importance responsibilities challenges and future trends in piping engineering setting the stage for a deeper exploration into the subject

Designing of Piping Model and Analysis of Stress Using Caesar II and LabVIEW Karunakar Mavooru, McNeese State University, 2005 *The Best Knowledge of Piping Engineering II*, 2025-11-15 It gives me great pleasure and sense of deep satisfaction to publish this book of The Best Knowledge of Piping Engineering II You can learn how to design material selection and testing fabrication erection construction inspections and quality control of pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe supports and steel structural platforms fabrication and installation etc and teach yourself to be a master of the process piping construction with the step by step instructions and quality control It provides all the information about tools and equipments being used in the piping construction work An engineer is the tradesperson who is busy in fabrication

installation assembly testing maintenance and repair of process piping systems Fresh Piping engineer usually begins as apprentices and deals with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and requires metals such as carbon steel stainless steel alloy steel cupronical and many different alloying metals fused together through precise cutting threading grooving bending and welding Piping engineer plan and test piping and tubing layouts cut bend or fabricated pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes They do testing and inspection of the piping system Piping engineers are often exposed to hazardous or dangerous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling Other occupational hazards include exposure to the weather heavy lifting crushing hazards lacerations and other risks normal to the construction industry This book has proved to be a friend and guide to many Piping engineer Contractors and Technicians working with any Construction or Consultants Companies who are responsible for Laying out assembling or installation of piping systems pipe supports applying their knowledge of construction experience following blueprints and select the type and size of pipe related materials and equipment such as supports hangers and hydraulic cylinders according to piping drawings and specifications

Piping Engineering Leadership for Process Plant Projects James Pennock, 2001-07-02 James O Pennock has compiled 45 years of personal experience into this how to guide Focusing on the position of lead in charge this book is an indispensable resource for anyone new or seasoned veteran whose job it is to lead the piping engineering and design of a project The lead person is responsible for the successful execution of all piping engineering and design for a project technical and non technical aspects alike The author defines the roles and responsibilities a lead will face and the differences found in various project types Incorporates four decades of personal experience in a How To guide Focuses on the position of lead in charge Includes coverage of topics often ignored in other books yet essential for success management administrative and control responsibilities

Process Piping Design Rip Weaver, 1973

A Guide to Piping Design and Engineering Anuj Bhatia, 2016-03-12 One of the most important components of the infrastructure is the vast network of pipelines and process piping literally millions and millions of miles The term pipelines generally refers to the network of pipelines that transport water sewage steam and gaseous and liquid hydrocarbons from sources e g reservoirs steam plants oil and gas wells refineries to local distribution centers transmission pipelines and to the network of pipelines that distribute such products to local markets and end users distribution pipelines The term process piping generally refers to the system of pipes that transport process fluids e g industrial gases fuels

chemicals etc around an industrial facility involved in the manufacture of products or in the generation of power It also is used to describe utility piping systems e g air steam water compressed air fuels etc that are used in or in support of the industrial process Also certain drainage piping where corrosive or toxic fluids are being transported and severe conditions may be present or where it is simply outside the scope of plumbing codes is also sometimes classified as process piping Some places where process piping is used are obvious such as chemical and petrochemical plants petroleum refineries pharmaceutical manufacturing facilities and pulp paper plants However there are many other not so obvious places where process piping is commonplace such as semiconductor facilities automotive and aircraft plants water treatment operations waste treatment facilities and many others This book comprises of 9 course modules which cover all aspects of piping design in easy to learn format All topics are introduced to readers with no or limited background on the subject A multiple choice quiz total 255 questions is provided at the end of each module to test the readers knowledge and enhance learning The book is very comprehensive and refresher to engineers and designers working in the field of piping in Oil and Gas Chemical and Industrial plants It is also very useful to fresh engineers joining industries for improving their knowledge in the field of fluid transportation and pipework

An Introduction to Liquid Process Piping J. Paul Guyer,2017-08-02 This publication provides introductory technical guidance for mechanical engineers and other professional engineers and construction managers interested in design and construction of liquid process piping systems Here is what is discussed 1 METALLIC PIPING 2 PLASTIC PIPING 3 RUBBER ELASTOMER AND THERMOSET PIPING 4 DOUBLE CONTAINMENT AND LINED PROCESS PIPING

Pipe Drafting and Design Roy A. Parisher,2011-10-04 Pipe Drafting and Design Third Edition provides step by step instructions to walk pipe designers drafters and students through the creation of piping arrangement and isometric drawings It includes instructions for the proper drawing of symbols for fittings flanges valves and mechanical equipment More than 350 illustrations and photographs provide examples and visual instructions A unique feature is the systematic arrangement of drawings that begins with the layout of the structural foundations of a facility and continues through to the development of a 3 D model Advanced chapters discuss the use of 3 D software tools from which elevation section and isometric drawings and bills of materials are extracted Covers drafting and design of pipes from fundamentals to detailed advice on the development of piping drawings using manual and CAD techniques 3 D model images provide an uncommon opportunity to visualize an entire piping facility Each chapter includes exercises and questions designed for review and practice New to this edition A large scale project that includes foundation location equipment location arrangement and vendor drawings Updated discussion and use of modern CAD tools Additional exercises drawings and dimensioning charts to provide practice and assessment New set of Powerpoint images to help develop classroom lectures

Perfect Knowledge of Piping Engineering and Construction III Ram Babu Sao,2026-03-02 It gives me great pleasure and sense of deep satisfaction to publish this book of Perfect Knowledge of Piping Engineering and Construction III You can learn

how to design material selection and testing fabrication erection construction inspections and quality control of pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe supports and steel structural platforms fabrication and installation etc and teach yourself to be a master of the process piping construction with the step by step instructions and quality control It provides all the information about tools and equipments being used in the piping construction work An engineer is the tradesperson who is busy in fabrication installation assembly testing maintenance and repair of process piping systems Measures Weights Units Conversion of Unit Physics Hydraulic engineering Chemistry Mathematics Abbreviations Codes and Standards Piping Materials Corrosion of Metal Piping Design and Engineering Piping Components Piping Project Management Piping Fabrication and Assembly Piping Welding and Weld Specification Piping Quality Control and Inspection Piping Heat Tracing Lined Piping Fabrication and Assembly Jacketed Piping Fabrication and Assembly Piping Painting Piping Coating and Wrapping Piping Cathodic Protection Piping Insulation Non Metallic Piping Fabrication and Assembly Fresh Piping engineer usually begins as apprentices and deals with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and requires metals such as carbon steel stainless steel alloy steel cupronical and many different alloying metals fused together through precise cutting threading grooving bending and welding Piping engineer plan and test piping and tubing layouts cut bend or fabricated pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes

Verification of Experimental Results with Caesar II Software Anil Reddy
Annapureddy,McNeese State University,2007 [An Introduction to Liquid Process Piping](#) J. Paul Guyer,2017-07-11 This publication provides introductory technical guidance for mechanical engineers and other professional engineers construction managers and plant operators interested in liquid process piping Here is what is discussed 1 METALLIC PIPING 2 PLASTIC PIPING 3 RUBBER ELASTOMER AND THERMOSET PIPING 4 DOUBLE CONTAINMENT AND LINED PROCESS PIPING

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