At the end of this workshop you will understand:
• Plant layout fundamentals and procedures
• Fundamental principles of chemical process technology
• Terminology and symbols used in plant layout
• Equipment used in process plants
• Piping design and engineering principles
• Terminology, symbols and abbreviations in piping design
• Documents (bill of materials, equipment specifications, etc) and drawings
• 3D modeling of plants and piping systems

This workshop is designed for personnel who want to understand the design and engineering principles involved in process plant layout and piping design, including:
• Personnel from engineering, procurement and construction companies
• Chemical (process) engineers
• Mechanical engineers
• Piping designers and piping engineers
• Project engineers
• Personnel providing CAD support for plant layout and piping design
• Designers and engineers involved in instrumentation and control of process plants
• Equipment designers and engineers
• Structural designers and engineers
• Electrical designers and engineers
• Consulting engineers
• Plant maintenance personnel
Process plants such as refineries and petrochemical plants are complex facilities consisting of equipment, piping systems, instruments, electrical systems, electronics, computers, and control systems. The design, engineering, and construction of process plants involves multidisciplinary team effort. Plant layout and design of piping systems constitute a major part of the design and engineering effort. The objective is to design safe and dependable processing facilities in a cost-effective manner. The fact is that there are few formal training programs with a focus on plant layout and design of piping systems, therefore most of the required skills are acquired while on the job, reducing productivity and efficiency.

This interactive two-day workshop will cover the fundamental principles and concepts used in process plant layout and piping design. You will have an opportunity to learn and discuss the techniques and procedures used in the design and engineering of complex process plants, including fundamentals of plant layout, the equipment used, design principles and procedures. You will also understand fundamentals of piping system components and the specification and design of these components. Practical examples from actual projects will be used extensively to illustrate the principles and drive home the point. You will also be provided with a high quality technical manual useful for many years after the workshop.

This is a practical, hands-on workshop enabling participants to work through practical exercises which reinforce the concepts discussed.

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