what you will learn

- Fundamentals of chemical engineering
- Simple process calculations including mass and energy balances
- Develop Process Flow Diagrams (PFDs)
- Contribute to process design activities
- Simple specifications of pumps and heat exchangers
- Mass transfer phenomena
- Process drawings and link them to plant operation
- Apply safety guidelines to a process or chemical plant
- Basic chemical engineering jargon and terminology
- Plant layout fundamentals and procedures
- 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) and drawings (PFDs, P&IDs) used in plant layout and piping design
- 3D modeling

ENROL NOW: Fax the enrolment form to us, or email enquiries@eit.edu.au
PRESENTED BY

KOBUS HARMSE
B.Eng[Chem Eng], B.Eng Hons Senior Technical Manager

One word describes Kobus. Passionate! He loves his work in chemical engineering. He has worked in a number of roles at Sasol in the chemical engineering area ranging from the ammonia business, to ultra high purity hydrogen and solvents. Latterly he’s been responsible for optimisation support in the Monomers and Polymers business. He spent a year doing detail engineering in Texas which he found a tremendously positive influence on his career.

Kobus has received outstanding reviews with his presentations of this course overseas; with many participants commenting on his strong practical bias thanks to his experiences in chemical engineering.

12 MODULES OVER 3 MONTHS

OVERVIEW:

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. Process design, 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. There are few formal training programs with a comprehensive coverage of all three major topics of process design, plant layout and design of piping systems. Therefore, most of the required skills are acquired while on the job, reducing productivity and efficiency.

This course provides you with the basic knowledge and skills in the disciplines of chemical engineering and plant design to facilitate faster learning curves while on the job. It covers the fundamental principles and concepts used in process design and plant design. Upon completion of this course, you will have a clear understanding of the design and engineering principles used in the design of process plants.

PRESENTATION FORMAT

The certificate program features real-world applications and uses a multi-pronged approach involving self-study, interactive online webinars and homework assignments with a mentor on call. The course consists of 12 modules, over a period of 3 months.

Some modules may involve a practical component or group activity. For each module there will be an initial reading assignment along with coursework or problems to be handed in and practical exercises in some cases. Participants will have ongoing support from their instructor and course coordinator.

Course reading material will be delivered in electronic [PDF] format in advance of online presentations. Presentations and group discussions will be conducted using a live interactive software system. Assignments will be submitted electronically and wherever possible, practical exercises will be conducted using simulation software and remote labs.

LIVE WEBINARS

During the program you will participate in 6 live interactive sessions with the instructor and other participants from around the world. Each webinar will last approximately 60 to 90 minutes, and we take student availability into consideration wherever possible before scheduling webinar times. Contact us for details of webinar session scheduling. All you need to participate is an adequate Internet connection, speakers and a microphone. The software package and setup details will be sent to you prior to the course.

BENEFITS OF LIVE E-LEARNING

- Attend lessons in an online classroom with your instructor and fellow students
- Upgrade your skills and refresh your knowledge without having to take valuable time away from work
- Receive information and materials in small, easy to digest sections
- Learn while you travel - all you need is an Internet connection
- Have constant support from your course instructor and coordinator for the duration of the course
- Interact and network with participants from around the globe and gain valuable insight into international practice
- Learn from international industry experts, based around the globe
- Live interactive webinars, not just a ‘book on the web’
- Receive a certificate of completion for CPD purposes

INCLUDES 4 FREE REFERENCE MANUALS

VALUED AT OVER US$400

You will receive 4 of our up-to-date technical e-books to add to your library.

- Practical Fundamentals of Chemical Engineering
- Fundamentals of Process Plant Layout and Piping Design
- Practical Process Control
- Practical Instrumentation for Automation and Process Control

Please Note: e-Books are available in hard copy at 50% of the recommended retail price. Contact us for pricing details.
practical exercises
Throughout the course you will participate in hands-on exercises using simulation software, which will help you put theory to practice immediately!

hardware and software requirements
All you need to participate is an adequate Internet connection, PC, speakers and a microphone. The software package and setup details will be sent to you on the course commencement date.

entrance requirements
Some practical work experience in some of these topics would obviously be advantageous.

practical exercises
Throughout the course you will participate in hands-on exercises using simulation software, which will help you put theory to practice immediately!

Certification
Participants completing all the assignments and achieving 60% or more for their final mark, as well as attending 65% of the live webinars, will receive the Engineering Institute of Technology Professional Certificate of Competency in Chemical Engineering and Plant Design.

On-site training
We can provide our training at the venue of your choice. On-site training can be customised and by bringing the trainer to site the dates can be set to suit you!

“The Customer is Always Right” – so tell us what you need and we will design a training solution at your own site.

For a FREE detailed proposal please contact Kevin Baker via e-mail: training@idc-online.com