



Training Course: Heat Exchangers: Types & Application, Design, Operation & Maintenance

24 - 28 June 2024 London (UK) Landmark Office Space - Oxford Street



Training Course: Heat Exchangers: Types & Application, Design, Operation & Maintenance

Training Course code: MI6081 From: 24 - 28 June 2024 Venue: London (UK) - Landmark Office Space - Oxford Street

Training Course Fees: 5775

Euro

Introduction

This course will feature the importance and relevance of the important and expensive items of equipment known as heat exchangers that are used in a wide variety of industries. It will familiarise engineers and technicians with the various standards and practices used for design, manufacture, operation, and maintenance of heat exchangers.

To all these engineers with diverse backgrounds and expertise, the principle of heat exchangers design and codes will allow them to understand the recommended practices. This course will cover all these aspects with respect to engineering design in general and shell and tube exchangers in particular.

This course will feature:

- Heat Exchangers Design Characteristics
- Understanding of Heat Transfer principles
- Integration of network facilities
- · International Codes in fabrication, operation, and maintenance activities
- Integration of fouling considerations and performance monitoring

Course Objectives of Heat Exchangers

By the end of this course, participants will be able to:

- Understand heat transfer fundamentals
- Analyze exchanger operational parameters
- Determine correct troubleshooting techniques
- Determine the correct selection criteria for heat exchangers
- Troubleshoot exchange problems

Target Audiance of Heat Exchangers

This course will benefit all levels of personnel in a process plant environment. It will enable them to understand the design considerations, construction details and operational parameters associated with process heat exchangers.

This course is suitable to a wide range of electrical engineering professionals but will greatly benefit:

- Maintenance Professionals
- Inspection Personnel
- Process Supervisors
- Plant Operators
- Plant/Technical Managers

Course Outlines of Heat Exchangers



Day One

Types and Applications of Heat Exchangers

- · Overview and Basic Fundamentals
- · Heat Transfer Fundamentals and Heat Transfer Coefficients
- Heat Exchanger Types and Application
- Geometry Of Shell & Tube Heat Exchangers STHE
- Double Pipes TEMA Nomenclature, Front End Head Types, Shell Types
- Rear End Types, Double Pipe Units, Selection Guidelines

Day Two

Thermal and Hydraulic Design of Heat Exchangers

- Sizing and Specifying the Heat Exchanger
- Flow vs. Temperature Difference in STHE
- Temperature Difference in STHE
- · Condensers and Reboilers

Day Three

Mechanical Design of Heat Exchangers

- Mechanical Design Of Heat Exchangers
- Basic Design Of Heat Exchangers
- Special Design Considerations
- Piping Loads on Exchanger Nozzles
- Materials of Construction On Heat Exchangers
- Fabrication of Heat Exchangers

Day Four

Operation and Maintenance of Heat Exchangers

- · Fouling in Heat Exchangers
- Corrosion and Erosion in Heat Exchangers
- Heat Exchanger Inspection Methods
- Operation and Troubleshooting
- · Performance Monitoring and Testing
- · Cost-Effective Maintenance and Repair of Heat Exchangers

Day Five

Performance Enhancement and Optimisation of Heat Exchangers

- Heat Transfer Augmentation Techniques
- Finned Tubes
- Heat Integration Basics
- Pinch Technology
- Heat Exchanger Train Optimisation
- Tube Bundle Replacement Alternative Enhanced Tube Bundle Designs





Registration form on the Training Course: Heat Exchangers: Types & Application, Design, Operation & Maintenance

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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Payment Method
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Easy Ways To Register

Telephone: +201095004484 to provisionally reserve your place.

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E-mail to us: info@gh4t.com or training@gh4t.com

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