TEMA & HTRI Heat Exchanger Design & Cost Saving Management

Heat Exchanger Cost Saving by Selection & Design

08 - 12 Nov 2015

Dubai, United Arab Emirates
Why Choose this Course?

The course provides in depth practical understanding of major proven heat exchanger technologies and “state of art” fouling mitigation technologies. Pro’s and Con’s of several heat exchanger types are presented explained with life operational examples. This course provides a good mix of theory and common practices using highly interactive case studies where attendees are encouraged to use in-house heat exchanger type selection software and rigorous design/rating world-class software from HTRI.

Heat exchangers are the workhorses in a refinery and as long the heat exchanger perform its duty, nobody pay’s attention; but in real life it’s different. Process changes, stringent emission regulations might evolve in excessive fouling, high pressure drops and tube vibration which lead to CAPEX intensive replacements. An initial saving with a special type might generate high cost in future due to wrong selection.

This course will feature:

- Selection of Heat Exchanger Type
- Advanced Heat Exchanger Technologies
- Fouling Mitigation Technologies
- HTRI rating & design common practices
- Highly Interactive Case Studies

What are the Goals?

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

- Proper Heat Exchanger Selection
- Heat Exchanger sizing
- Active Communicator during Meetings with Vendors
- Better observer during final inspection of heat exchangers
- Clear understanding of HTRI results

How will this be Presented?

This course will utilize a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This includes presenting a large amount of photographs and graphics. The Instructor will bring the fabricator’s workshop to the course so attendees will experience all intermediate stages of heat exchanger fabrication. Case study solutions should be presented by the attendees in front of the class and have to perform an HTRI rating on their own. The Instructor will guide and facilitate learning using a wide variety of methods including direct input, discussions, case studies and pair and group work.

Course Schedule:

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Who is this Course for?

This course is suitable to a wide range of Technical Professionals but will greatly benefit:

- Engineers in disciplines Process, Mechanical, Project acting as specialist or generalist.
- Design Specialist in heat exchanger to extend their knowledge HTRI specific
- Engineers in various disciplines; Maintenance, Turn-Around, & Cost Estimating
THE COURSE CONTENT

**DAY 01**
Shell & Tubulars

- Historical & Market Aspects
- Basic Heat Transfer
- Mean Temperature Difference & Thermal Efficiency
- Fundamentals of Stream Analysis
- TEMA Nomenclature & Selection
- Shell, Bundle, Baffle and Tube type Selection

**DAY 02**
Shell & Tubulars
Advanced Technologies

- Fouling Mitigation Technologies
- High Pressure Breech Lock Closure type
- Texas Tower, Helitower, Helixchanger, Helifin, Helitrans
- Tube Insert Technologies
- Low-fin, High-flux, Corrugated and Twisted Tube applications and examples

**DAY 03**
Vibration Analysis and HTRI / TEMA Case Studies

- Tube Vibration and FIV Prevention Technologies
- Case Study Selection of TEMA type
- HTRI Case study

**DAY 04**
Air Cooled & Compact Heat Exchangers

- Air Cooled & Economizer Type
- Double Pipe, Hairpin
- Plate & Frame, Spiral Plate & Spiral Coil
- Welded Plate (Printed Circuit, Packinox, Brazed Aluminum)
- Submerged & Waterbath Type
- Open Rack Vaporizer, Case Studies on Selection

**DAY 05**
HTRI Thermal Design Aspects Condensers & Reboilers

- Practical Aspects of Condenser Design (Reflux, Vent, Shellside versus Tubeside)
- Practical Aspects of Reboiler Design (Thermosyphon, Kettle, Falling Film)
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Complete & send by fax/mail to address given below. Please use BLOCK CAPITALS.

08 - 12 Nov 2015
Dubai, United Arab Emirates

REGISTRATION DETAILS

Family Name: .................................................................
First Name (Mr./Ms.): ...........................................................
Position: ...........................................................................
Company: .......................................................................... Mailing Address:
...................................................................................
...................................................................................
Telephone ..........................................................
Mobile ..........................................................
Fax ..........................................................
Email ..........................................................

AUTHORISATION

Authorised by: ........................................................................
Position: ..........................................................................
Telephone ..........................................................
Fax ..........................................................
Email ..........................................................
Postal Address: ..........................................................................

FEES

US$ 4,150/- 2015 participant
This fee is inclusive of Documentation, Lunch and Refreshments

MODE OF PAYMENT

☐ Please invoice my company
☐ Please invoice me
☐ Please find enclosed a cheque payable to AZTECH

CERTIFICATION

AZTech Certificate of Completion will only be awarded to those delegates who attend and complete the course.

HOTEL ACCOMMODATION

Hotel accommodation is not included in the Registration Fee. A reduced corporate rate and a limited number of rooms are available for attendees wishing to stay at the hotel venue.

Please make your request for accommodation at least 3 weeks prior to the commencement of the program.

CANCELLATIONS & SUBSTITUTIONS

You must notify the Registrar of cancellations at least 2 weeks before a scheduled seminar in order to be eligible for a credit. If you cannot attend, you may send a replacement from your organisation at no charge. There is a $250 handling charge for all cancellations or rescheduling. We reserve the right to cancel a seminar due to low enrollment. All registrants will be notified in advance and a full refund will be provided upon request.

DISCLAIMER

Circumstances beyond the control of AZTech may necessitate postponement, change of venue or substitution of the Instructor. As such, AZTech reserves the right to implement such amendments.

4 WAYS TO REGISTER

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ABOUT AZTECH

A leading international provider of training, seminars, and learning solutions. We offer Strategy, Management & Leadership Development Programs, Functional & Technical Seminars, Customised In-house Programs, and Business Consultancy for Performance Solutions.