



Mastering Heat Exchangers with HTRI software

11 - 15 Aug 2024
Sharm El-Sheikh (Egypt)



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Ref.: 15569_315287 **Date:** 11 - 15 Aug 2024 **Location:** Sharm El-Sheikh (Egypt) **Fees:** 4500 Euro

Introduction:

This comprehensive Mastering Heat Exchangers with HTRI software training program, specialized caters to a diverse array of participants ranging from seasoned engineers to budding professionals keen on delving into the intricacies of heat exchanger design and analysis. This training, which has a meticulous blend of theoretical insights and practical applications, offers a transformative learning experience tailored to meet the evolving needs of professionals in the heat exchanger industry.

Whether you're a seasoned expert seeking to deepen your understanding or a novice eager to embark on a journey into heat exchanger technology, this program provides an immersive platform. It's a unique opportunity to master the nuances of HTRI software and unlock your full potential in optimizing heat exchanger performance.

With a focus on fostering collaboration, innovation, and proficiency, participants can expect to gain invaluable insights, enhance their technical skills, and emerge as proficient practitioners in heat exchanger engineering. Join us as we embark on a journey of exploration, discovery, and mastery in the fascinating world of heat exchangers powered by the cutting-edge capabilities of HTRI software.

Targeted Groups:

- Engineers and Technicians.
- Process Engineers.
- Heat Exchanger Designers.
- Project Managers.
- Consultants and Researchers.
- Graduate Students and Academics.
- Professionals Transitioning Careers.
- Corporate Training Programs.

Course Objectives:

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

- Understand the fundamentals of heat exchanger design and operation.
- Master the use of HTRI software for heat exchanger analysis and optimization.
- Learn advanced techniques for modeling various types of heat exchangers.
- Gain insights into heat transfer principles and their application in industry-specific scenarios.
- Explore case studies and practical examples to enhance problem-solving skills.
- Develop proficiency in interpreting HTRI software results and making informed engineering decisions.
- Acquire hands-on experience through interactive exercises and simulations.
- Collaborate with peers to exchange ideas and best practices in heat exchanger design and analysis.

Targeted Competencies:

- Proficiency in HTRI software.
- Understanding of heat transfer principles.
- Modeling and simulation skills.
- Interpretation of HTRI results.
- Troubleshooting abilities.
- Application of industry standards.
- Collaborative problem-solving.
- Adaptability to new technologies.

Course Content:

Unit 1: Introduction to Heat Exchangers and HTRI Software:

- Understand different types of heat exchangers and their applications.
- Familiar with the features and capabilities of HTRI software.
- Learn about the ability to navigate the HTRI software interface and tools effectively.
- Understand the competency required to set up heat exchanger models within the software.
- Explore proficiency in importing and manipulating data for analysis.

Unit 2: Fundamentals of Heat Transfer and Fluid Mechanics:

- Know heat transfer mechanisms conduction, convection, radiation.
- Understand fluid flow principles relevant to heat exchanger design.
- Apply heat transfer equations and correlations in HTRI software.
- Understand competence in calculating heat transfer coefficients and pressure drops.
- Skill in optimizing heat exchanger performance based on fluid dynamics.

Unit 3: Heat Exchanger Design and Analysis Techniques:

- Master heat exchanger design principles and methodologies.
- Learn how to perform thermal and hydraulic design calculations using HTRI software.
- Understand competence in sizing heat exchangers for specific applications and operating conditions.
- Skill in evaluating heat exchanger performance under various scenarios.
- Explore proficiency in troubleshooting design issues and optimizing heat exchanger configurations.

Unit 4: Advanced Modeling and Simulation:

- Understand advanced modeling techniques for complex heat exchanger geometries.
- Know the proficiency in simulating multiphase flow and phase change phenomena.
- Explore the ability to analyze transient heat transfer behavior and thermal stratification.
- Understand competence in predicting fouling and corrosion effects on heat exchanger performance.
- Skill in conducting sensitivity analyses and parametric studies for optimization.



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Unit 5: Case Studies and Practical Applications:

- Apply learned competencies to real-world case studies and industry-specific scenarios.
- Analysis of existing heat exchanger systems using HTRI software.
- Evaluate design alternatives and performance improvements.
- Collaborate with peers to brainstorm solutions and best practices.
- Presentation of findings and recommendations to stakeholders, demonstrating mastery of heat exchanger design and analysis using HTRI software.



**Registration form on the :
Mastering Heat Exchangers with HTRI software**

code: 15569 **From:** 11 - 15 Aug 2024 **Venue:** Sharm El-Sheikh (Egypt) **Fees:** 4500 **Euro**

Complete & Mail or fax to Mercury Training Center at the address given below

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Position:

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City / Country:

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Full Name (Mr / Ms / Dr / Eng):

Position:

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