

**Course Fee: US\$450**

Do you design air-cooled heat exchangers? Evaluate their performance? Then this workshop is for you. Learn how to use *Xace* effectively to rate and design air-cooled heat exchangers, economizers, and air preheaters. All example problems and practice exercises relate to geometries handled only by *Xace*.

**Key Topics**

- Overview of *Xace* capabilities and applications
- Geometry inputs for air coolers and economizers
- Process specifications for rating, simulation, and design
- Guidelines for specifying fluid properties
- Introduction to HTRI analysis methods

**Suggested Participants**

Designers of air-cooled heat exchangers and process engineers who evaluate their performance

**HTRI Software**

This course will make use of the following HTRI software: *Xchanger Suite*® component *Xace*®. All training materials are based on the current software version.

**Course Credits:** 6 hours (PDH/CEU)

**Outline**

- I. Introduction to Air-cooler Basics
  - Geometry
  - Configurations
- II. *Xace* Input
  - Input specifications
  - Design tips and common design approaches
- III. Performance and Fluid Property Data
  - Measures of performance
  - Process specification rules
  - Methods to specify fluid properties in *Xace*
- IV. Tubeside Methods
  - Single-phase
  - Condensing
- V. Airside Methods
  - Extended surfaces model
  - Auxiliary pressure losses
  - Natural draft
  - Maldistribution