

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