



# Residential Manual J8 Load Calculations Duct System Design & Duct Sealing Training

March 2-4, 2010  
Fort Smith



## Program Overview

This training is designed to encourage improved installation practices for heating, ventilation, and air conditioning (HVAC) equipment, including measures designed to reduce leakage in air ducts. This workshop will teach participants how to design a residential heating and air conditioning system from the ground up using Wrightsoft's Right Suite™ Residential software. Participants will learn how to more accurately calculate heating and cooling loads for proper sizing of equipment, select the right equipment for the loads and correctly design and size a ducting system.

## Who Should Attend?

Arkansas's licensed Class A and B, HVAC/R contractors are encouraged to attend. As a prerequisite, attendees will be expected to understand the basics of Microsoft® Windows.

## Sponsor

This training is *fully sponsored* by **Energy Efficiency Arkansas (EEA)**, a partnership between the Arkansas Energy Office and Arkansas's investor-owned electric and gas utilities and electric cooperatives. The training complements EEA programs and incentives that promote the installation and distribution of high efficiency HVAC equipment.

**Those who complete the course will receive a certificate of completion and 20 NATE credits.**

## Course Outline

### Tuesday, March 2 8:00 to 4:30

*(Lunch on your own)*

- Arkansas utility conservation programs, promotions and HVAC incentive programs
- Manual J 8th edition overview
- Right-Suite UNIVERSAL – Load Exercise 1
- Right-Suite UNIVERSAL – Load Exercise 2

### Wednesday, March 3: 8:00 to 4:30

*(Lunch on your own)*

- Right-Suite UNIVERSAL – Load Exercise 3
- Manual S – Equipment Selection
- Manual D – Duct Design
- Right-Suite UNIVERSAL – Duct Design

### Thursday, March 4: 8:00 to 4:30

*(Lunch on your own)*

- Manual T – Grille & Register Selection
- Right-Suite™ UNIVERSAL – Reports
- Arkansas Code compliance
- Duct leakage impacts, diagnostics, repair and sealing

# Instructors

## Jack Rise

Jack Rise, CMS, is a Certificate Member Specialist of the Refrigeration Service Engineers Society (RSES). He has extensive industry experience, having worked as a contractor for 18 years, as a distributor for 13 years and for a major HVAC manufacturer for five years. In 2004, Jack formed his own company, Jack Rise HVAC Technical Training, and works out of his offices in Tinton Falls, New Jersey, and Tampa, Florida.

Jack is an EPIC-certified instructor for all of the ACCA residential manuals. He travels extensively around the country conducting seminars on residential and commercial load calculations, system design, and on the use of HVAC computer-based software. Jack currently runs training sessions for NATE and EPA/CFC certifications and is an instructor for his local ACCA chapter.

Jack is a 30-year member of RSES and serves on the Board of directors of the North Jersey Chapter of ACCA.

## Joe Kuonen

Joe Kuonen manages residential and light commercial energy conservation programs for Clear Result Consulting Inc., under contract to Entergy Arkansas. He has more than 25 years experience in construction, remodeling, energy auditing, HVAC contracting, blower door testing, and Home Performance diagnostics and repair. He is a licensed HVAC contractor and conducts trainings nationwide in both technical and sales aspects of Home Performance contracting.

# Materials Provided

The following materials are provided for each attendee:

- Manual J8 edition — Load Calculation Manual
- Essential Elements Workbook
- Right-Suite — UNIVERSAL Demo Software
- Manual S — Equipment Selection Manual
- Manual D — Duct Design Manual
- Manual T — Grille & Register Selection Manual

# Materials to Bring

Attendees must bring the following to class:

- A laptop computer with Microsoft® Windows 2000, XP or Vista operating system
- Laptop must have CD drive to load demo software
- Network password-protected computers must be unlocked to accept demo software
- A comfortable, user-friendly computer mouse
- Four-function calculator

# Registration Information

Pre-registration is required for this course. Space is limited to 25 attendees, and openings are on a first come, first serve basis. To register, contact:  
Judy Foster • Arkansas Energy Office • 501-682-7690

The cost of registration is \$300 refundable upon completion of the class.  
Please mail payment to: Judy Foster • AEDC/AEO  
One Capitol Mall • Little Rock, AR 72201  
Make check payable to: AEDC/AEO

## WORKSHOP LOCATION

Golden Living Corporate Headquarters  
1000 Fianna Way • Fort Smith, AR 72919

## DIRECTIONS

In Fort Smith, take the AR-253 S exit, Exit 14 toward Hackett. Turn LEFT onto US-271 (becomes AR-253). Turn RIGHT onto Fianna Way/Beverly Way. 1000 Fianna Way is on the left.

## SUGGESTED LOCAL HOTELS

<i>Hampton Inn</i>	<i>Guest House</i>	<i>Travelodge Fort Smith</i>
6201-C Rogers Ave.	3600 Grinnell Ave.	5103 Towson Ave.
479-452-2000	479-646-5100	479-646-2931