

## Course Requirements

It is a MANDATORY REQUIREMENT that you have the Steam System Scoping Tool (SSST), Steam System Assessment Tool (SSAT), and 3E-Plus software loaded and operational on a laptop computer that you bring with you to the training. Particularly for loading the SSAT software, this laptop should have an up-to-date version of the Microsoft Windows operating system (Windows 98, NT, 2000, and XP are appropriate). Also, for the SSAT software, you will need to have a version of Microsoft Excel on your computer.

Finally, it is also MANDATORY that you have a CD drive on your laptop. This will be necessary for loading some of the in-class problems and also loading parts of the final exam for the course.

**A Strong Energy Portfolio for a Strong America**  
Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.



## Steam System Specialist Qualification

industrial training workshop



Southern California Gas Company  
9240 E. Firestone Blvd.  
Downey, CA 90241-5388

January 25-27, 2005



U.S. Department of Energy  
Energy Efficiency and Renewable Energy  
Bringing you a prosperous future where energy is  
clean, abundant, reliable, and affordable

## Goals & Overview

The primary goal of the US Department of Energy's (DOE) Steam System Specialist Qualification workshop is to equip participants to be fluent in the appropriate use of the BestPractices Steam Tools Suite, which includes:

- Steam System Scoping Tool (SSST)
- Steam System Assessment Tool (SSAT)
- Steam System Survey Guide.

The 3E-Plus Insulation Appraisal software tool will also be introduced.

The workshop will be two-and-a-half days long. The first two days will cover the lesson materials. Numerous in-class problems will be worked and discussed so that class participants will understand the applicability and limitations of the BestPractices Steam Tools. On the third morning of the workshop, the Specialist Qualification examination will be offered. Class participants that pass the examination (85% examination grade or above) will be designated as BestPractices Steam Qualified Specialists, and their names and contact information will be listed on the US DOE BestPractices website.

## Instructors

Dr. Greg Harrell and Dr. Richard Jendrucko from the University of Tennessee will instruct the training. Dr. Harrell is the primary developer of the materials for this course and for the BestPractices Steam End User training (which he also teaches). Dr. Jendrucko is a past director of the University of Tennessee, Knoxville Industrial Assessment Center (for more than 20 years). Rich is the co-developer of the Steam System Specialist Qualification training and he also teaches the BestPractices Steam End User training.

## Agenda

### Day 1 (7:30 am - 6:00 pm)

- Introduction to basic calculations
- The Steam System Scoping Tool (SSST)
- Steam System Assessment Tool (SSAT) introduction
- SSAT model building
- SSAT turbine evaluation and modeling
- SSAT main project development
- Post-class session

### Day 2 (7:30 am - 6:00 pm)

- General SSAT model components
- SSAT project evaluation
  - Boiler-related projects
  - Turbine-related projects
  - Distribution system-related projects
- Marginal steam costs
- Combustion turbine assessment
- 3E-Plus
- Post-class session

### Day 3 (7:30 am - 1:00 pm)

- Training review
- Examination materials
- Examination (Four hour time limit)

**Meals:** Breakfast will be offered all three days and lunch will be offered the first two days, free of charge.

Co-Sponsored by:



## Registration Form

Please register me for the *Steam System Specialist Qualification* workshop on January 25-27, 2005:

First Name \_\_\_\_\_ Last Name \_\_\_\_\_

Company Name \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Email Address \_\_\_\_\_

There is no registration fee for this training. Pre-registration is required.

**Please contact Tony Wright to register for the workshop at 865-574-6878 or [wrightal@ornl.gov](mailto:wrightal@ornl.gov).**

Please indicate special diet needs:

- Vegetarian  
 Other \_\_\_\_\_

## Accommodations

There are many accommodations in the area. The Embassy Suites is located two blocks from the training location on Firestone Blvd.

To reserve a room, please call the hotel at: **562-861-1900**

For attendees from out of state: Please fly into LAX, John Wayne (SNA), or Long Beach. Long Beach is closest to the training location. Alaska Airlines and Jet Blue fly into Long Beach.