

## Method of Payment

**Pre-registration required by mail, fax, phone or email.**

**Pre-Registration Fee: \$175. Registrations must be received by January 2nd.**

- Check or money order enclosed (payable to Spirax Sarco):

**Send to:**

Angie Funk  
Spirax Sarco, Inc.  
4647 Saucon Creek Road  
Suite 102  
Center Valley, PA 18034  
afunk@spirax.com

- Fax or call in credit card registrations to:  
Fax: (800) 996-3232  
Phone: (800) 251-7676

- Credit card:  
 Visa  Mastercard  American Express

\_\_\_\_\_  
Cardholder Name (PLEASE PRINT)

\_\_\_\_\_  
Credit Card #

\_\_\_\_\_  
Expiration Date

\_\_\_\_\_  
Billing Address

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City, State, Zip

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Signature

### 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.

## 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.

## Course Preparation

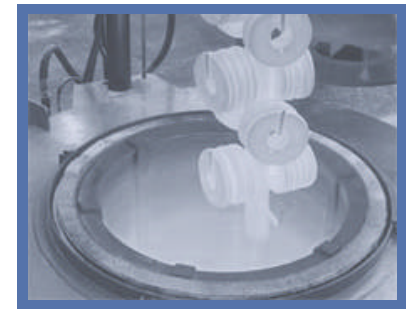
During the week of December 5th, a Prerequisite Study Guide will be sent to everyone who has registered. The Prerequisite Study Guide should be used as an indicator of readiness to participate in the Specialist Qualification Training. Participants should be confident in the solution method of each problem. A web-based training session will be scheduled two weeks before the Specialist Qualification Training class (during the week of January 9th) to review solutions to the problems.

It should be noted that all of the prerequisite material is covered in the BestPractices Steam Systems Assessment Training, a one-day introductory course on steam systems. Information on course availability be found at: <http://www.oit.doe.gov/bestpractices/textCalendar.shtml>



## Steam System Specialist Qualification

industrial training workshop



**Spirax Sarco Training Center**  
4647 Saucon Creek Road  
Suite 102  
Center Valley, PA 18034

**January 24-26, 2006**



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.

Optimize your steam systems and reduce energy costs...

## 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)

Co-Sponsored by:



## Registration Form

Please register me for the *Steam System Specialist Qualification* workshop on January 24-26, 2006:

\_\_\_\_\_  
First and Last Name (PLEASE PRINT)

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

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

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Fax

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

Please indicate special diet needs:

Vegetarian

Other \_\_\_\_\_

## Accommodations

There is a special rate being held for this training at the Comfort Suites. The price is \$69.00 plus tax per night. Attendees are responsible for making and paying for their own hotel accommodation. When making reservations please mentioned the Spirax Sarco room rate.

Comfort Suites  
3712 Hamilton Blvd.  
Allentown, PA 18103  
Phone: 610-437-9100  
Fax: 610-437-0221