LEARN HOW TO ACHIEVE SYSTEM COST SAVINGS OF 15-25%

Fundamentals of Compressed Air Systems Workshop

Tuesday, November 17, 2009 8 am to 4:30 pm

Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238

Advance Registration Requested
Registration limited to 29 people

General Summary: This workshop provides a discussion of energy efficiency factors for compressed air systems, with an emphasis on considering the system instead of only components. Indicators and symptoms of potential energy reduction opportunities are presented. The program will be valuable to maintenance staff and managers, manufacturing plant technicians, consulting engineers, and equipment distributors' technical and sales staff.

The Compressed Air Challenge has developed a training workshop to help evaluate industrial compressed air systems and apply proven techniques to reduce operating costs and improve productivity, product quality, system reliability and competitiveness. The Department of Energy has adopted this training for its workshop directed at improving industrial compressed air systems. The Fundamentals of Compressed Air Systems Workshop is an introductory course designed to teach facility engineers, operators and maintenance staff how **to achieve cost savings of 15-25%** through more effective production and use of compressed air.

Course Objectives: Participants will learn how to:

- Calculate the energy cost of compressed air in the facility;
- Improve compressed air system efficiency and reliability;
- Identify inappropriate uses of compressed air;
- Establish a performance and efficiency baseline for comparison;
- Match system supply to actual requirements for pressure and flow;
- Find and fix leaks;
- Establish a leak prevention program; and
- Better control compressed air to improve productivity and profitability.

Course Agenda: **Introduction**
Why Care About Compressed Air? Compressed Air Challenge questionnaire Pre-workshop assignment
Break
Study Your Supply Side

What is supply side? Typical components of the supply system: compressors, controls, dryers, traps and drains, and filters
Break
Understand Your Demands What is the demand side? Typical components of demand Inappropriate uses of compressed air Common leak locations and how to fix them
Break
Are You on Base? Baselining basics and techniques
Lunch Provided (30 minutes)
Stay Under Control Controls, part-load efficiency, and storage Using controls—pros and cons
Break
Maintain System Efficiency Simple, quick cost-cutting measures System demand profile
Break
Get with the Plan Seven Step Action Plan Personal action plan
Break
Summary and Evaluation

PDH Credits: Attendees will be issued a certificate for 6 hours of Professional Development Hours.

Instructor: Chris Beals. Half of Chris' 30 years in the compressed air industry were spent as owner of a compressor distributorship in Denver, Colorado. Since selling his distributorship in 1998, Chris has been active as a consultant designing compressed air systems and conducting compressed air system audits and seminars throughout North America. As a founding member of the Compressed Air Challenge, he is one of five members of the Core-Technical Group, which wrote the material contained in the Compressed Air Challenge seminars. In addition, he has written many articles for trade magazines.

Hosts: Texas Industries of the Future, Texas Manufacturing Assistance Center, Southwest Research Institute, CPS Energy, Texas State Energy Conservation Office, US DOE. Lunch is provided by CPS Energy.

Cost: $90

How to Register: Go to www.regonline.com/CompAir1109 to register online.

Nearby Hotels: Nearby hotels include the Courtyard by Marriott, Embassy Suites Northwest, and Holiday Inn Northwest.

Directions:
Southwest Research Institute (SwRI)
6220 Culebra Road

Building 209, CR103 (first floor)
San Antonio, TX 78238

From SwRI Main Gate on Culebra Road, travel straight on Tom Slick Avenue. Proceed to 4-way stop, continue straight for about ½ mile. Building 209 is located at 528 Tom Slick Ave. on your left, also known as “Office of Automotive Engineering” (#19 on attached map).