Advancing By Degrees Energy Efficiency Training for Industry

Industrial Efficiency Alliance

Advancing Continuous Energy Improvement

Compressed Air Challenge Level One: Fundamentals of Compressed Air Systems

Event Information

November 5, 2008 7:30 a.m. to 4:30 p.m.

JR Simplot Co. Denali Room 999 Main St Boise, ID 83702

Cost: \$199

Value of \$600 per person

Continuing Education Units through Washington State University will be made available for this course.

Who Should Attend

- Plant Maintenance Managers
- Plant and Consulting Engineers
- Compressed Air Operators and Mechanics
- Compressed Air Vendors Sales Staff and Technicians
- Efficiency Organizations and Utility Staff

Course Benefits

- Calculate the energy cost of compressed air
- Learn to actively manage Compressed Air systems to improve system efficiency and reliability
- Identify inappropriate uses of compressed air
- Establish a baseline for tracking improvements
- Match system air supply to actual production pressure and flow requirements
- Find and fix system leaks
- Learn about available financial incentives from your utility company
- Apply training by reducing compressed air costs through efficiency measures

Course Highlights

Are your compressed air energy costs under control? Even the smallest compressed air system is a relatively large source of energy consumption and cost. Make your company more profitable with the Compressed Air ChallengeTM, a series of seminars that applies proven techniques to achieve cost-effective solutions. Optimizing your compressed air systems can lead to higher productivity, energy savings, increased product quality and greater efficiency.

This course offers attendees the opportunity to use their own system data in seminar exercises, as well as mastery of compressed air system components and techniques. Attendees can apply training and implement changes immediately upon return to their work place.

Instructor

Jeff Yarnall, PE is a licensed mechanical engineer, State of Oregon, with over 25 years experience with compressed air systems, including: system design, applications, installations,



troubleshooting, maintenance, controls and energy audits. Jeff has trained over 1,000 technicians, supervisors and engineers, applying his experience gained while performing hundreds of compressed air audits. He is a national Level 1 and Level 2 instructor for the Compressed Air ChallengeTM, a national educational effort to improve air systems efficiency throughout the United States.

Co-Sponsoring Organizations













Agenda

7:30 Registration & Continental Breakfast

8:00 Introduction

Why Care About Air?

- Compressed Air Challenge questionnaire
- Pre-workshop assignment

Study Your Supply Side

- What is supply side?
- Typical components of the supply system:
- compressors, controls, dryers, traps and drains, and filters

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

Are You on Base?

Baselining basics and techniques

12:00 Lunch (30 minutes) Stay Under Control

- · Controls, part-load efficiency, and storage
- Using controls: pros and cons

Maintain System Efficiency

- Simple, quick cost-cutting measures
- System demand profile

Get With the Plan

- Seven Step Action Plan
- Personal action plan

4:30 Summary and Evaluation

How to Register

Registration deadline is October 17, 2008

Please phone, fax, e-mail or mail registration to:

Industrial Efficiency Alliance

c/o Ecos Consulting

309 SW 6th Ave., Suite 1000

Portland, OR 97204

PHONE: 888-720-6823 **FAX:** 503-525-4800

E-MAIL: TrainingCenter@industrialefficiencyalliance.org

Questions?

Visit www.industrialefficiencyalliance.org/training.html or contact the Training Center at 888-720-6823 or TrainingCenter@industrialefficiencyalliance.org

About the Industrial Efficiency Alliance

The Industrial Efficiency Alliance helps Northwest industries control costs and enhance business performance through increased energy efficiency.

The Industrial Efficiency Alliance's training program, Advancing by Degrees, delivers a full suite of solutionsbased courses.

Registration Form – Please register me for the Compressed Air Challenge Level 1 training on November 5, 2008:

First Name	Last Name	Title	Phone/Fax
Company Name		Utility Provider	E-mail Address
Address			Please indicate special diet needs Vegetarian Other
City	State	Zip	. — — — — — — — — — — — — — — — — — — —
Participation approve	ed by: Supervisor name_		E-mail
Payment Option	ons:		
Please enclose a chec 888-720-6823 or fax	ck with this registration for registration form to 503-5	525-4800.	e address. If paying by Visa/MC or purchase order please call MasterCard in the amount of
			Card holder name (please print)
Expiration date /			Address associated with card
Authorized Signature			City State Zip

^{*} Cancellation Policy; Full refund of registration fees by October 17th . Half refund thereafter.