COMPRESSED AIR CHALLENGE – LEVEL 1

December 11, 2014

7:30 am until 4:30 pm

Idaho Power Canyon Operations Center
2420 Chacartegui Lane
Nampa, ID 83687

Registration Fee: $139*
*Cost is waved for employees of companies that are Idaho Power industrial end-use customers. Due to limited class size and training opportunities, priority will be given to end-users, and the first two employees from any single organization/site. Others may be placed on a waiting list. When registering online, enter the following discount code if you are eligible for the subsidy: **IPCO**.

0.7 Continuing Education Units through Washington State University may be made available for this training

Key Learning Objectives

- Calculate the energy cost of compressed air
- Identify inappropriate uses of compressed air
- Calculate system leak load
- Establish a baseline for tracking improvements
- Learn quick and simple cost cutting measures

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

Agenda

7:30 **Registration (breakfast provided)**

8:00 **Morning Session**
- Welcome and Introduction
- Why Care About Air?
  - Compressed Air Challenge questionnaire pre-workshop assignment
- Study Your Supply Side
  - Typical components of the supply system
- 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

11:30 **Lunch (provided)**

12:30 **Afternoon Session**
- 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

2:00 **Break**

2:15 **Afternoon Session Continued**
- Get With the Plan
  - Seven Step Action Plan and Personal Action Plan

4:15 **Summary and Evaluation**

4:30 **Adjourn**

Course Description: 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 Challenge™, 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 training 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 with over 30 years experience with compressed air systems, including: system design applications, installations, trouble-shooting, maintenance, controls and energy audits. Jeff has trained over 1,500 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 Challenge™, a national educational effort to improve air systems efficiency throughout the United States.

Hosting Sponsor

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WASHINGTON STATE UNIVERSITY EXTENSION ENERGY PROGRAM

This training is a provided by Compressed Air Challenge. For more information:
http://www.compressedairchallenge.org/

The Northwest Regional Industrial Training project is coordinated and funded by the Northwest Energy Efficiency Alliance (NEEA), a private non-profit organization funded by Northwest utilities, the Energy Trust of Oregon, and Bonneville Power Administration. NEEA and its stakeholders subsidize up to 85% of the cost to attendees, which means the cost listed on the front of this brochure is significantly less than the average price in the marketplace. NEEA works in collaboration with its stakeholders and strategic market partners to accelerate the sustained market adoption of energy-efficient products, technologies, and practices. NEEA's market transformation efforts address energy efficiency in homes, businesses, and industry.

How to Register

Registration deadline is November 21, 2014

Register online:
https://www.regonline.com/148neea-industrialtraining

Or phone, fax, email, or mail the registration form below to:

NEEA Industrial Training c/o Ecova
309 SW 6th Ave #1000
Portland, OR 97204

Payments using a purchase order may also be submitted by phone or fax using the numbers below.

Questions

Visit http://neea.org/get-involved/calendar or contact the training center at 888.720.6823 or industrial-training@industrial.neea.org

Registration Form – Please register me for the **Compressed Air Challenge – Level 1** training on **12/11/2014:**

_____ _____
First Name Last Name Title Phone/Fax

_____ _____
Company Name Utility Provider E-mail Address

_____
Address

Please indicate special diet needs:
□ Vegetarian
□ Other _____

_____
Zip City State

Participation approved by: _____ _____
Supervisor name Supervisor e-mail

Payment Options

Please enclose a check with this registration form and mail to the above address.

If paying by purchase order please call 888-720-6823 or fax registration form to 503-525-4800.

Discount Code: _____ Purchase Order: _____

Cancellation Policy: Full refund of registration fee if attendance is cancelled by November 21st; half refund thereafter.