City of McCleary | Mason County PUD 3 Public Utility District | Tacoma Power Tacoma Public Utilities | Washington State University Extension Energy Program

COMPRESSED AIR CHALLENGE – LEVEL 1

July 12, 2016

7:30 am until 4:30 pm

Washington State University Energy Program
905 Plum St SE
Olympia, WA 98504

Registration Fee: $139

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

Class size is limited to 25 attendees

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 of 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 Sponsors

City of McCleary

Mason County PUD 3 Public Utility District

Tacoma Power

Washington State University Extension Energy Program

Co-Sponsoring Organizations

Cowlitz PUD

Seattle City Light

Bonneville Power Administration

Grays Harbor PUD

Lewis County PUD Public Utility District

Snohomish County PUD Public Utility District No. 1

PSE Puget Sound Energy

NWFPA Northwest Food Processors Association

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 June 28, 2016

Register online:
https://www.regonline.com/166neea-industrialtraining

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

Phone: 888-720-6823
Fax: 503-525-4800
Email: industrial-training@industrial.neea.org

NEEA Industrial Training c/o Ecova
100 SW Market St, Suite 200
Portland, OR 97201

Please make checks payable to NEEA Industrial Training c/o Ecova#2300

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 **July 12:**

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 _____

Other Payment Options

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

Discount Code: _____ Purchase Order: _____

Cancellation Policy: Full refund of registration fee if attendance is cancelled by **June 28;** half refund thereafter.