



# U.S. Department of Energy (DOE) BestPractices Training

Do you want to learn how to manage your motors and optimize your pumping system? Or do you need to calculate the energy cost of compressed air in your facility? Would you like to find ways to save energy in your data center?

BestPractices, under the DOE Industrial Technologies Program, works with U.S. industry to implement energy management practices in industrial plants.

PennTAP and Penn State Continuing Education are partnering to provide BestPractices training at locations throughout Pennsylvania this spring. We invite you to attend these workshops to learn how to save energy, money, and improve productivity.

Registration fee for each workshop is \$99

Deadline to register is two weeks prior to the date of the workshop

For more information about the workshops and for registration assistance contact Continuing Education :

Penn State DuBois  
814-375-4822  
[www.ds.psu.edu/ce](http://www.ds.psu.edu/ce)

Penn State Fayette  
724-430-4211  
[www.fe.psu.edu/ce](http://www.fe.psu.edu/ce)

Penn State Hazleton  
570-450-3053  
[www.hn.psu.edu/ce](http://www.hn.psu.edu/ce)

Penn State York  
717-771-4105  
[www.yk.psu.edu/ce](http://www.yk.psu.edu/ce)

Date	Training	Location
January 27	Fan System Assessment	Penn State York
January 28	Pump System Assessment	Penn State Fayette
February 24	Motor Systems Management	Penn State York
February 25	Motor Systems Management	Penn State Fayette
March 2	Compressed Air Systems	Penn State DuBois
March 16	Pump System Assessment	Penn State Hazleton
April 7	Compressed Air Systems	Penn State York



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Continuing Education



# U.S. Department of Energy BestPractices Training

Hosted by Penn State Fayette

BestPractices, under the DOE Industrial Technologies Program, works with U.S. industry to implement energy management practices in industrial plants. PennTAP and Penn State Fayette Continuing Education are partnering to provide BestPractices training. We invite you to attend the workshop and learn how to save energy, money and improve productivity.

## February 25 - Motor Systems Management

8:00 AM Registration

8:30 AM - 12:00 PM Morning Session

- Overview of motor systems
- Motor applications
- Motor efficiency – how it is measured, classified, and affected by environment and load
- Motor operation
  - Load type, control, and variation
  - Operating environment
  - Power quality
- Motor Management Basics
- Electronic adjustable speed drives
- Power factor correction

12:00 PM - 1:00 PM Lunch provided

1:00 PM - 4:30 PM Afternoon Session

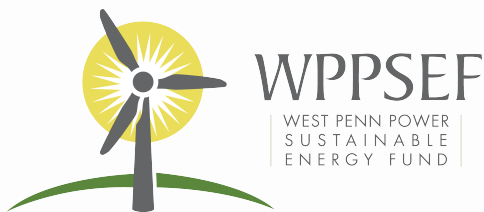
- Motor system maintenance
  - Managing maintenance
  - Failures and their causes
  - Avoiding failures with proper installation, setup, and preventative maintenance
  - Predictive maintenance to foresee and forestall failures
- Motor rebuilding
  - Steps in motor repair and rewinding
  - Repair or rewind actions that can affect the energy efficiency or the motor
  - Guidelines to use in specifying motor repair and rebuilding
- Guidelines and methods to evaluate repairing versus replacing motors
- MotorMaster+
  - Overview of Software Tool Capabilities
  - Motor Selection Decisions

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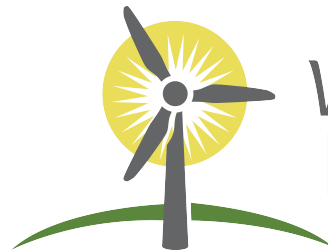
## Fundamentals of Compressed Air Systems

March 2, 2011

This is a one-day introductory course designed to teach facility engineers, operators and maintenance staff how to achieve 15-25% cost savings through more effective production and use of compressed air.

Participants will learn how to:

1. Calculate the energy cost of compressed air in their facility;
2. Improve compressed air system efficiency and reliability;
3. Identify inappropriate uses of compressed air;
4. Establish a baseline by which they can measure improvements in compressed air performance and efficiency;
5. Match system supply to actual production requirements for pressure and flow;
6. Find and fix leaks;
7. Establish a leak prevention program, and
8. Better control compressed air to improve productivity and profitability.



WPPSEF  
WEST PENN POWER  
SUSTAINABLE  
ENERGY FUND

Registration fee for the workshop is \$99.

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The workshop location is -

Clarion University Small Business  
Development Center  
The Barnes Center  
330 North Point Drive  
Clarion, PA 16214  
<http://web.clarion.edu/sbdc/about/directions.pdf>

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