

"Both the Fundamentals and Advanced workshops were very well taught. Formulas and reference materials provided have been invaluable in helping our plants more effectively size and specify new compressed air equipment."

John Gage, Engineer, Warren Performance Packaging, Iowa

"...using valuable tips from the training, our 3M Energy Conservation Team is planning several updates that are expected to reduce compressed air system operating costs by about 15% annually ... inspection and review of the piping systems should provide additional up-front savings."

Mark Schuler, Senior Engineer Technician,
3M Company, Texas

Other CAC resources

The CAC develops other practical resources to foster compressed air efficiency. The following products, many produced in collaboration with the U.S. Department of Energy, are available online free of charge:

- **Case Studies** from a variety of industries
- **Quick Tips** and **Fact Sheets** about compressed air
- **Compressed Air Sourcebook for Industry**
- **Selecting a Compressed Air Service Provider**
- **Airmaster+** compressed air diagnostic software

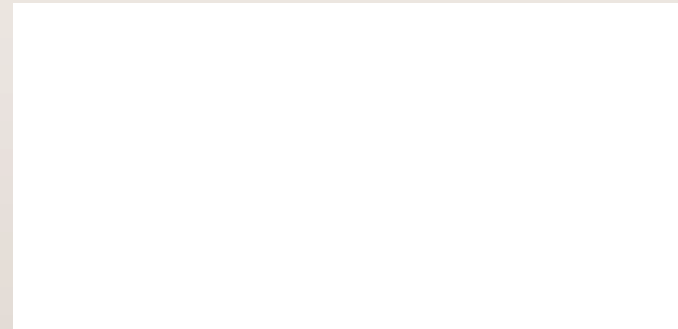
What is the Compressed Air Challenge?

The CAC is an independent, non-profit collaborative organization with no commercial bias. Sponsors include federal and state energy agencies, utilities, industrial users, manufacturers, distributors, energy efficiency organizations, and expert consulting engineers. Our mission is to enhance industrial competitiveness through improved energy efficiency.

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Compressed air is not free.

Identify and reduce hidden energy costs!



"The Compressed Air Challenge training is the best match I have ever seen between theory and real world industrial compressed air applications. Every option is easily linked to a dollar value."

Ralph Valeron, Engineer, Geocel Corporation, Indiana

American industry spends \$4.5 billion annually* on compressed air energy!

Become more competitive by finding and reducing compressed air operating costs.

Although often overlooked or blended into overhead, compressed air energy costs – even for small systems – comprise a significant portion of industrial operating costs.

The Compressed Air Challenge (CAC) provides resources to support our goal of helping manufacturing businesses implement proven, cost-effective strategies that could reduce national compressed air energy costs by up to \$900 million annually.

*Energy Costs based on findings from the US Department of Energy's (DOE) Assessment of the Market for Compressed Air Efficiency Services, 2004.

"The Fundamentals workshop helped us identify our high compressed air costs and immediate strategies for improvement. I strongly recommend this training; it was well worth the tuition cost."

Mike Jennings, Mechanical Engineer, Muscatine Power and Water, Iowa

Step up to the challenge!

Learn proven new strategies to save money and improve system reliability.

The CAC offers unmatched quality in technical training and other resources to give you the skills and tools for successful compressed air management, so you can effectively:

- Calculate and reduce system operating costs
- Diagnose and address production and pressure control problems
- Improve equipment specification and system design/modification
- Identify and repair costly compressed air leaks
- Improve air quality
- Increase productivity by reducing unscheduled downtime

"The CAC classes were really good and generated a lot of discussion and projects in the following weeks. We subsequently logged pressures for a better understanding of our system, added controls, installed better automatic drain valves on our tanks, and upgraded three of our dryers. The controls added to the dryers alone probably save around \$20,000 per year. The increased reliability of the instrument air system means less down time...."

Mike Mauser, Mechanical Engineer, Newmont Mining, Nevada

"The Advanced course really helped me understand the interactions of compressors, controls, air dryers, valves, distribution piping, and compressed air end uses."

Michael Harrison, Mechanical Engineer, Honeywell Inc., Montana

Highly effective technical training

The CAC has been conducting informative, affordable compressed air technical training courses throughout the country since 1998. These in-depth and highly practical sessions have provided nearly 6,000 technicians, technical sales staff, system designers and consulting engineers with:

- Training on troubleshooting and system diagnosis
- Strategies to improve energy efficiency and system reliability
- Detailed guidance on cost management techniques

Two levels of training are conducted by expert, CAC-certified instructors:

- **Fundamentals of Compressed Air Systems** (1 day)
- **Advanced Management of Compressed Air Systems** (2 days)

An astonishing 76%* of industrial end-users who participate in CAC training apply newly-learned techniques when they return to their facilities. Energy savings from these improvements average 17.3% of compressed air energy use, with added benefits of increased system reliability.**

Visit our website (www.compressedairchallenge.org) for training information, training schedules, and an independent evaluation of our training courses.

*Based on findings from the US DOE Evaluation of the Compressed Air Challenge Training Program, 2004.

**Based on compressed air projects documented by the US DOE, visit: www.compressedairchallenge.org.

Want to schedule CAC training in your area?

Contact the CAC, your local utility, State Energy Office or compressed air service provider about scheduling compressed air training in your area!

Our Best Practices Manual

The CAC's proprietary Best Practices for Compressed Air Systems is the #1 reference for the most reliable and lowest cost compressed air performance! This detailed manual, released in 2003, was written by internationally recognized compressed air experts and reflects technical consensus among manufacturers, end users, and systems experts.

The Best Practices Manual provides invaluable information on practical application of field-tested methodologies to help industrial users reduce compressed air operating costs and improve overall system reliability. It provides details on a full range of specific, system-wide improvement opportunities – from the compressor room to applications on the floor.

You can order the CAC Best Practices Manual today – download an order form at www.compressedairchallenge.org or take the Fundamentals class and receive the manual for free (a \$95 value).



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