PURDUE
UNIVERSITY

TECHNICAL ASSISTANCE PROGRAM
a NIST MEP Network Affiliate

TAP Energy Efficiency Services

Energy Efficiency Practitioner Certification Program

Each facility has different energy needs and by extension, the people running it need a unique set of skills and knowledge in order to run that facility as efficiently as possible. To meet this need, the Purdue Technical Assistance Program (TAP) created a worker training program that will help you create a team of specialists in your plant who know how to identify and quantify opportunities as well as develop and justify solutions.

The Energy Efficiency Practitioner certificate program provides an introduction to managing energy usage and investing in energy efficiency and it does so in a way that is meaningful and useful to facility engineers, plant managers, and other professionals who are charged with the responsibility of accounting for energy consumption. A core set of courses provides workers with an understanding of energy cost and a systematic approach to evaluating the use of energy. Attending optional public workshops provides your team with knowledge and skills in the optimization of energy-intensive systems such as steam and compressed air.

The Practitioner program brings the systematic approach of LEAN manufacturing to energy efficiency. Rather than perform an energy audit for you, we'll show your team how to conduct and then incorporate an energy efficiency opportunity analysis into a value stream mapping exercise that will identify the projects with the greatest potential for cost savings at your facility. All of the modules have been developed by the US Department of Energy, industry trade organizations, manufacturers, well known engineering firms, or Purdue faculty and staff.

The target participants of the Practitioner program are plant managers, facility engineers, end users, energy purchasing agents, and decision makers. The courses and workshops feature real-world examples and current industry best practices. Many of the optional workshops contain training in the use of system modeling software and provide continuing education units (CEUs) that can be applied towards maintaining a professional accreditation.

Each worker will receive five days of training that will cover issues as common as understanding the details of a utility bill, to ones as specific a performing an opportunity analysis and solution justification for a project at your plant. To receive a Practitioner certificate, each member of your team must participate in the identification, analysis and justification of an energy savings project.

This program is part of the Indiana Office of Energy Development's efforts to promote energy efficiency and to reduce the need for future investment in additional energy infrastructure.

To learn more about the TAP Energy Efficiency Services:
Please visit our website at www.Purdue.edu/TAP/ees or,
Contact Ethan Rogers, Manager EES, at (317) 275-6817 or by e-mail at earogers@purdue.edu.

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Purdue Technical Assistance Program
Energy Efficiency Services

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Custom build an energy efficiency training program to meet your needs: Start with the list below and build the program that is right for you!

Step 1: Facility Process Analysis – Waste Stream Mapping

- Develop a profile of your facility's equipment and processes
- Understand the inputs and outputs of each process
- Learn to see non-value added costs
- Identify and prioritize opportunities

Step 2: Opportunity Survey (with instrumentation) and Analysis

- Focusing on opportunities identified, we'll work with your energy team to bench mark your current state, train and guide your team in equipment use, and data analysis.
- With data in hand, your team will qualify, quantify, and prioritize each opportunity

Step 3: Incorporating Energy Efficiency into Financial Decision Making

- Introduction to energy – how is it used, how is it wasted
- Understand energy expenditures – how much is it costing you?
- Evaluation of utility rates and tariffs – identify opportunities to save money!
- Business case analysis – learn how to justify a project
- Cost benefit analysis – when is lowest first cost not the correct choice?

Step 4: Implementation and Earning Certification

- Mentoring: each company will receive mentoring by an industry specialist on a project or system of the company's choice. The specialist will help workers begin to implement what has been learned in previous steps.
- Each Energy Efficiency Practitioner student will be required to implement or model one project and perform measurement and validation of energy and energy cost savings to earn certification.

Optional: Attend Best Practices Workshops

Enhance your training program with our 1-day Best Practices workshops. They will provide your workers the skills and understanding they needed to optimize your energy intensive systems.

- Lighting and Controls
- Compressed Air Systems
- Chillers and Cooling Towers
- Boilers & Steam Systems
- Pumping Systems
- HVAC systems & Waste Heat Recovery

Certification Provided by Purdue Technical Assistance Program

Your certificate will list your individualized course curriculum and the number of Continuing Education Units (CEUs) you have earned.

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