

Free Educational Seminar

For PGE Commercial and Industrial Customers

Fundamentals of Energy & Managing Costs

This free, half-day seminar provides an overview of electricity concepts and the components of a utility electrical system, from generation to distribution. It offers best practices for energy using equipment and operations, as well as maximizing operating improvements and dollar savings from energy efficiency projects. The seminar incorporates hands-on activities, problem-solving exercises, and videos.

Topics covered:

- *Fundamentals of electricity: watts, volts, amps, circuits, transformers, phases*
- *Components of electric utility systems: generation, transmission, distribution and deregulation*
- *Energy use in business operations: electric bills, energy charges, power factor, demand charges and calculating the cost of running equipment*
- *Strategies for optimizing energy use and lowering operating costs*
- *Preparing for an outage, minimizing disruptions and protecting equipment*
- *Energy Trust incentives and services from utilities and nonprofits, including loans and free estimates from qualified consultants and contractors*

Who should attend?

This non-technical seminar is for management and staff of PGE commercial and industrial customers and members of the Salem Area Chamber, Keizer Chamber, or SEDCOR, who want to improve their basic knowledge of electricity and how to manage it in their business operations. The seminar incorporates hands-on activities, problem-solving exercises, and videos.



Instructor

John McLain, Project Manager, Customer Program Management, PGE

John has over 40 years of wide-range utility experience from distribution field operations to energy-efficiency programs. He completed his MBA in organizational effectiveness and is an adjunct faculty member at Clackamas Community College teaching energy resource management.

Jan. 25, 2012 in Portland • Jan. 26, 2012 in Salem

Time and Location

Wednesday, January 25, 2012, Portland

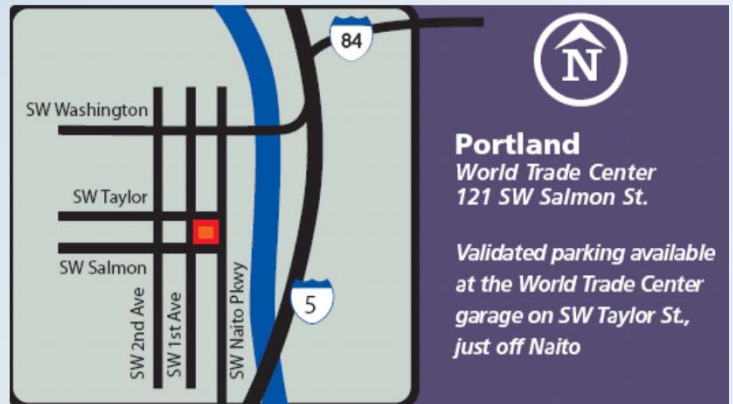
7:30 a.m. - 11:00 a.m.

Continental Breakfast: 7:30 a.m.

Seminar: 7:50 a.m.

2 World Trade Center

121 SW Salmon St., Portland, OR 97204



Thursday, January 26, 2012, Salem

7:30 a.m. – 11:00 a.m.

Continental Breakfast: 7:30 a.m.

Seminar: 7:50 a.m.

PGE Salem Service Center

4245 Kale St. NE, Salem, OR 97305



Cost

Free to PGE commercial and industrial customers. Others may attend based on space; fee will apply.

Accreditation

- Chemeketa & Clackamas Community Colleges: 0.3 CEUs (continuing education units)
- IFMA: Qualifies for 3 CFM maintenance points
- Oregon Real Estate Agency: qualifies for 3 continuing education credit hours (course topics: commercial real estate and property management)

Registration

RSVP is requested as soon as possible. However, we can accommodate a few walk-in registrations. To register, e-mail PGE.Seminars@pgn.com or call **503-464-8020** and press "1" for classes.

More Educational Opportunities

Visit our website at PortlandGeneral.com/Classes for a complete list of offerings. Classes may be added throughout the year. Send an e-mail to PGE.Seminars@pgn.com to receive e-mail notices of new class offerings.



Portland General Electric



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