

PGE's Educational Seminars - March 2010 Update -



Portland General Electric

Sign Up for FREE **Energy Efficiency & Renewables** Seminars

NEXT 90 DAYS: ½ day Free Seminars & Workshops

Industrial Fan Systems	Mar. 2, Wilsonville
Industrial Pump Systems	Mar. 3, Wilsonville
HVAC, Building Tune-Up & Commissioning	Mar. 10, Portland / Mar. 11, Salem
Compressed Air Systems	Apr. 6, Wilsonville
NEW: Power Distribution & Transformers, 8-Week Course, Cost \$495	Apr. 7 – May 26, Tualatin
Smart Investment in EE for MF Property Managers	Apr. 13, Portland
New Trends in Lighting – LED vs. Incumbents	April 14, Tigard
NEW: Advanced Technologies in Outdoor Lighting	April 15, Tigard
Energy & Water Efficiency – Double Your Savings	Apr. 22, Portland
NEW: Fundamentals of Efficient Lighting & Controls	Apr. 27, Tigard
NEW: Solar Photovoltaic Systems	Apr. 28, Salem / Apr. 29, Portland
NEW: Solar Thermal Heating Systems	Apr. 28, Salem / Apr. 29, Portland
Chilled Water Systems	May 11, Portland / May 12, Salem
Energy Champions Workshop	May 25, Wilsonville
NEW: A Smart Grid Perspective of EE, Renewables, & Demand Response	May 26, Portland

Popular Instructors Repeat in 2010

Bruce Dobbs, P.E., has over 25 years of experience in mechanical design and energy services and decades of experience evaluating projects and practices in HVAC technologies. Attend “HVAC, Building Tune-Up & Commissioning” March 10 & 11 and learn how to optimize your building’s performance! You’ll learn concepts to reduce energy use and improve building operation.

Eric Bessey, P.E., is a compressed air systems specialist with over 14 years of experience and has performed over 100 compressed air audits. Compressed air systems can be one of the largest energy consumers in your facility. Attend “Compressed Air Systems” April 6 and learn how to start saving energy and money today!

Recent Improvements & Changes

Smart Investments in EE for Multifamily Property Managers: Learn how to make wise investments to help save energy, improve tenant comfort and potentially improve your bottom line! Mark D. Barry, MAI, real estate appraiser specializing in apartment appraisal work in the Portland-Vancouver metropolitan area, will speak about economics and trends in the multifamily property industry.

NEW: Power Distribution & Transformers 8-Week Course for electricians and engineers has been scheduled in a convenient Tualatin location. This is an evening course with a cost of \$495 per person; accredited by the state. Learn how to improve electrical system reliability, reduce maintenance problems, enhance worker safety, and increase energy efficiency.

Download a seminar or course syllabus at PortlandGeneral.com/Classes
REGISTER an individual or group; send an email to PGE.Seminars@pgn.com

We are developing more new seminars – Coming Soon

EE & Renewables in Commercial Leased Building Spaces

Learn about how energy efficiency and solar projects can be part of your organization operations in leased buildings and spaces. This is for lessees and their landlords.

FREE to PGE Customers - 1/2 day seminars for those who plan ahead

2010:

Lighting Retrofits – How Low Can You Go?

High Bay Lighting

NEW: Fundamentals of Efficient Lighting & Controls

New Trends in Lighting – LED vs. Incumbents

NEW: Advanced Technologies in Outdoor Lighting

Monitoring Load Shape for Energy Savings

Energy & Water Efficiency – Double Your Savings

Commercial (Freon) Refrigeration Systems

EE & Renewables – A CFO Perspective

Chilled Water Systems

NEW: A Smart Grid Perspective of EE, Renewables, & Demand Response

Compressed Air Systems

Industrial Fan Systems

Industrial Pump Systems

Basics of Electricity & Managing Energy Costs

HVAC, Building Tune-Up & Commissioning

Compressed Air Systems

Ammonia Refrigeration Systems

Energy Champions Workshop

Jun. 8, Salem / Jun. 9, Portland

Jun. 10, Portland

Sep. 1, Tigard

Sep. 7, Salem / Sep. 8, Portland

Sep. 9, Wilsonville

Sep. 15, Portland

Sep. 21, TBA

Sep. 22, Salem / Sep. 23, Portland

Sep. 28, Portland

Sep. 29, Wilsonville

Oct. 7, Salem

Oct. 19, Portland

Oct. 20, Salem

Oct. 21, Salem

Oct. 26, Portland / Oct. 27, Salem

Nov. 4, Wilsonville

Nov. 9, Salem

Nov. 19, Portland

Dec. 1, Salem / Dec. 2, Portland

2011:

Basics of Electricity & Managing Energy Costs

Monitoring Load Shape for Energy Savings

Commercial (Freon) Refrigeration Systems

Ammonia Refrigeration Systems

Jan 26, Salem / Jan. 27 Portland

Feb. 8, Salem / Feb. 10, Wilsonville

Feb. 22, Wilsonville

Feb. 23, Wilsonville

Multi-week courses open to everyone

2010:

NEW: Power Distribution & Transformers, 8-Week Course, Cost \$495

Motors & Motor Controls, 7 Week Course, Cost \$495

Apr. 7 – May 26, Tualatin

Sep. 22 – Nov. 3, Tualatin

Download a full syllabus at PortlandGeneral.com/Classes

REGISTER an individual or group; send email to PGE.Seminars@pgn.com

