



PLAIN TALK



Are You A Professional in the Power Industry Who Would Like to Learn More About the Electric Power System?

- **Do You** work in the power industry but not as an engineer?
- **Would You** like to understand more about the technical aspects of the industry in a format that is geared to non-technical professionals?
- **Are You** an engineer new to the industry, or working in another industry who would like to transition to the power industry?

If you answered YES to the questions above... Register for our upcoming courses:



- **Power System Basics - Understanding the Electric Utility Operation Inside and Out**
- **Distribution System - Delivering Power to the Customer**
- **Transmission System - The Interconnected Bulk Electric System**

Plain Talk About the Electric Power Industry

April 23-25, 2017

Arlington, VA

(Washington, DC Metro Area)

Crystal Gateway Marriott

PES Plain Talk courses for the Power Industry Professional will help you to understand technical aspects of the Electric Power System, even if you do not have an engineering background. You will gain insights into the concerns of engineers, the demands of regulators and consumer groups, and the factors and trends that impact the operation of today's electric power systems. These courses are also appropriate for non-power engineers who are transitioning to the electric power industry.

Contact

LaToya Gourdine,
Administrator Education Services

IEEE Power & Energy Society at:
(732) 981-2876
l.gourdine@ieee.org

For More Information and To Register:

<http://www.ieee-pes.org/plain-talk-arlington-va-2017>

COURSE DESCRIPTION

Power System Basics – Understanding the Electric Utility Operation Inside and Out

April 23, 2017

The focus of this course is to provide a fundamental foundation in electric power systems, from basic formulas to the planning, operations, and equipment involved in generating, transmitting, and distributing electric power. Basic electrical terminology will be explained in simple to understand language with regard to design, construction, operation and maintenance of power plants, substations, and transmission and distribution lines. Anyone who is involved in some way with the electric utility industry can benefit from attendance at this course.

Topics covered in the course include an introduction to the fundamentals and basic formulas of electricity as well as the equipment involved in the electric power system. An over- view of generation, substations, transmission, distribution, and utilization is provided. Protection, reliable operation, and safety are among the topics covered.

Distribution System – Delivering Power to the Customer

April 24, 2017

Prerequisite for this course is Power System Basics or a familiarity with basic formulas and power system equipment.

The focus of this course is to provide attendees with an overview of the issues associated with the planning, engineering, design, operation, and automation of electrical distribution systems. Types of distribution systems and network circuits, as well as engineering issues related to distribution systems will be explored. New concepts in the design, challenges, and operation of smart grid will be addressed. This course is intended for those who are not familiar with the delivery of electricity to the end user.

Topics covered in the course include an introduction to the types of distribution systems, issues associated with distribution planning such as outages and reliability, distribution engineering considerations relating to radial and secondary networks, and distribution automation. The course also provides an overview of electrical distribution operations, including the roles of utility personnel, construction and maintenance considerations, and trends in the industry. Smart grid and its impact on the distribution system will be explored.

Transmission System – The Interconnected Bulk Electric System

April 25, 2017

Prerequisite for this course is Power System Basics or a familiarity with basic formulas and power system equipment.

The focus of this course is to provide participants with knowledge of how electric power is transferred from generation sources to distribution systems via the interconnected electric bulk power system known as “the grid.” Basic physical laws governing the grid will be introduced, as well as the regulatory agencies involved in its governance. The great blackouts will be explored. This course is intended to increase participant’s understanding of the electric grid and how it functions in the electric power system.

Topics covered in the course include an introduction to the fundamental concepts of power, energy, and power system stability as they relate to the grid. The grid is explored in terms of its interconnections, power flow, North American interconnections, and governing bodies such as NERC/ERO, ISOs, and RTOs. Reliability standards and contingency analysis are addressed. Issues related to the planning and operation of the grid, such as transmission and economic constraints, determining transmission transfer capability, and dealing with congestion are reviewed. The course also discusses the great blackouts, their root causes, and lessons learned.

ABOUT PLAIN TALK

PES Plain Talk courses for the power industry professional will help you to understand technical aspects of the electric power industry, even if you do not have an engineering background. You will gain insights into the concerns of engineers, the demands of regulators and consumer groups, and the factors and trends that impact the operation of today’s electric power systems. These courses are also appropriate for new engineers to the industry, or for engineers in other fields who are transitioning to the electric power industry.

ABOUT IEEE PES

The IEEE Power & Energy Society is the society of electric power and energy professionals throughout the world. It provides the world’s largest forum for sharing the latest in technological developments in the electric power industry, for developing standards that guide the development and construction of equipment and systems, and for educating members of the industry and the general public.

CONTINUING EDUCATION CREDITS

Each Plain Talk one-day course is eligible for 0.8 CEUs (equivalent to 8 Professional Development Hours, or PDH). Participants who complete the full three-day series are eligible to earn 2.4 CEUs (equivalent to 24 PDH).

Breakfast, lunch and snacks are provided each day.



Contact

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Plain Talk About the Electric Power Industry

April 23-25, 2017 • Crystal Gateway Marriott / 1700 Jefferson Davis Hwy, Arlington, VA 22202

Name: _____ Company: _____

Title: _____ Street: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

EARLY BIRD DISCOUNTS:

An early bird 10% discount is offered to attendees who register and pay before the discount registration period ends.

GROUP DISCOUNTS:

10% discount offered to two or more conference registrants from the same company or organization. Contact LaToya Gourdine (l.gourdine@ieee.org, 732-981-2876) for discount code prior to online registration.

Fee includes continental breakfasts, lunches, refreshment breaks and all course materials.

1-CHOOSE YOUR ENROLLMENT OPTION:

THREE COURSE ENROLLMENT (please check the appropriate box)

- Early Bird Fee**
(paid registration on or before March 26, 2017) - \$1,935
- Regular Fee**
(paid registration after March 26, 2017 and on site) - \$2,150
- Group Rate**
(10% discount from Early Bird or Regular Fee)

On or before March 26, 2017:
\$1,742 per person
After March 26, 2017:
\$1,935 per person
Group Name: _____

TWO COURSE ENROLLMENT (please check the appropriate box)

- Early Bird Fee**
(paid registration on or before March 26, 2017) - \$1,360
- Regular Fee**
(paid registration after March 26, 2017 and on site) - \$1,510
- Group Rate**
(10% discount from Early Bird or Regular Fee)

On or before March 26, 2017:
\$1,224 per person
After March 26, 2017:
\$1,360 per person
Group Name: _____

ONE COURSE ENROLLMENT (please check the appropriate box)

- Early Bird Fee**
(paid registration on or before March 26, 2017) - \$715
- Regular Fee**
(paid registration after March 26, 2017 and on site) - \$795
- Group Rate**
(10% discount from Early Bird or Regular Fee)

On or before March 26, 2017:
\$644 per person
After March 26, 2017:
\$715 per person
Group Name: _____

2-CHOOSE YOUR COURSE(S):

POWER SYSTEM BASICS

TRANSMISSION SYSTEM

DISTRIBUTION SYSTEM

TO REGISTER ONLINE, AND TO FIND INFORMATION ON LOCATION AND ACCOMMODATIONS: <http://www.ieee-pes.org/plain-talk-arlington-va-2017>

OR

- Mail to: IEEE-PES Plain Talk, 445 Hoes Lane, Piscataway, NJ 08854
- FAX to: (732) 562-3881
- Check (Payable to IEEE-PES)
- Purchase Order—Please attach a copy of the Purchase Order along with your registration form.
- Credit Card: __ VISA __ MasterCard __ American Express
Card # _____ Exp. Date _____ Security Code: _____
Name on Card _____ Authorized Signature _____

Address and Phone Number of Card Holder: _____

TOTAL ENCLOSED \$ _____

Please contact LaToya Gourdine (l.gourdine@ieee.org, 732-981-2876) for additional information.

Cancellations made in writing prior to April 9, 2017 will be fully refunded, less a \$50 cancellation fee. There will be no refunds after April 9, 2017. If an enrollee is unable to attend, the fee may be used by a substitute, or for enrollment in a future course. In the unlikely event of an event cancellation, registrants will receive a full refund for the cost of registration only.