

FUNDAMENTALS OF CYBER SECURITY FOR UTILITIES

November 13-14, 2018
EUCI Conference Center
Denver, CO



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“Furthered my learning regarding cyber security initiatives.”

Director, CPS Energy

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OVERVIEW

Like other parts of critical infrastructure, utilities face advancing cyber security threats to their corporate and field environments. Regulators, such as NERC and FERC, have mandated in their jurisdictions that these threats be addressed ultimately through compliance with NERC CIP requirements. However, because of the complex nature of control systems, utility cyber security programs face much greater challenges in providing needed cyber security controls for BES Cyber Assets (BCA) and BES Cyber Systems (BCS). Further complicating the situation are newer digital components being implemented that are challenging many preconceived notions of how technology is used in power generation and delivery.

As the options for access and control become more complicated, cyber security becomes more important to the overall safety of the environment. Threats are rapidly evolving, and the industry is struggling to balance asset availability with cyber security to keep malicious actors at bay. Regulators continue to refine their guidance, and the industry is racing to keep up. Notwithstanding growing questions and concerns from Utility Boards of Directors over cyber security, each audit of compliance requirements yields new insight into regulator concerns over cyber security in the energy industry.

This course is an in-depth introduction to cyber security issues facing utilities today. It is meant as a primer to give the necessary background for all staff to understand the concepts and complexities of cyber security and compliance with NERC CIP Standards.

LEARNING OUTCOMES

- Review current value at risk from cyber security threats facing electric utilities
- Analyze cyber threats and vulnerabilities
- Define, assess, and manage security risk for smart grid
- Discuss NERC CIP, key implementation strategies, and current events
- Discuss the convergence of IT and cyber security departments, internal and external communication strategies and building cross-functional teams
- Discuss practical techniques for risk management and data protection
- Articulate holistic cyber security program strategies focused on prevention

WHO SHOULD ATTEND

Utility and energy company staff from the following departments:

- Any Directors and C-Suite Executives
- Compliance and Regulatory Managers
- Legal and Regulatory Staff
- Information Technology and Information Security
- Operations and Engineering
- Administrative and Support Staff
- Control Systems Maintenance Staff

As well as:

- Attorneys and Regulators
- NERC Regional Entity staff
- Contractors and Vendors



“Excellent training to gain understanding of cybersecurity, applicable to utility companies”

Director Operations, NiSource

AGENDA

TUESDAY, NOVEMBER 13, 2018

- 8:00 – 8:30 am** **Registration and Continental Breakfast**
- 8:30 – 10:00 am** **Threats to Energy Infrastructure - Understanding the Cyber Threat Landscape and Value at Risk**
- Current cyber security threats facing electric utilities
 - Common vulnerabilities and consequences
 - Upcoming cyber security challenges for utilities
- 10:00 – 10:30 am** **Networking Break**
- 10:30 am – 12:00 pm** **Continuation of Value at Risk: Threats to Energy Infrastructure**
- 12:00 – 1:00 pm** **Group Luncheon**
- 1:00 – 2:30 pm** **Security of Smart Grids: How Cyber Security is Affecting its Future**
- Defining, assessing, and managing security risks affecting smart grid
 - Compliance and distribution systems
 - NIST standards
 - o Existing standards and those in development
 - o Practical impacts to utility cyber security practices
 - Cyber threats and vulnerabilities to communication networks
 - o Field maintenance and test equipment
 - o Wide Area Network communications
 - o Field communication with Internal IT assets
- 2:30 – 3:00 pm** **Networking Break**
- 3:00 – 5:00 pm** **NERC CIP: Implementation and Preparing for Subsequent Versions**
- Definition and review of the current version of NERC CIP and key differences from previous versions
 - Discuss key factors of each NERC CIP version along with implementation strategies
 - Identify what to expect from future NERC CIP versions

WEDNESDAY, NOVEMBER 14, 2018

- 8:00 – 8:30 am** **Continental Breakfast**
- 8:30 – 10:00 am** **Continuation of NERC CIP Discussion and Resolving Implementation Challenges**
- 10:00 – 10:30 am** **Networking Break**
- 10:30 am – 12:00 pm** **Integrating Cyber Security Across the Utility**
- Internal cyber security strategy
 - Cyber Security integration across the utility
 - o Cross-functional teams
 - o Roles and responsibilities
 - End-to-end cyber security from back office to core business
- 12:00pm** **Course Adjourns**

COURSE INSTRUCTOR

Rob Schuler

Cyber Strategy Manager, Accenture Security

Mr. Schuler is a Cyber Security Strategy Manager and Technical Thought Leader with Accenture Security in the United States. He has 20 years of cyber security risk management and systems security engineering experience across multiple industries. Over this period, he has become a recognized expert in cyber security guidance for utility control systems.

Mr. Schuler has key expertise in helping clients to define their needs and translate them into actionable program goals. He has a strong history of identifying and unifying technical teams of diverse backgrounds and delivering program excellence.

Mr. Schuler's industry outreach activities have included frequent speaking engagements delivering control system cyber security courses and speaking on industry panels, where his technical knowledge and interactive style is helping key industry participants reach a shared understanding of cyber security threats, compliance standards, and how to build secure, best-practice architectures while meeting compliance objectives.



“Excellent course, well organized, up to date and pertinent to today’s changing environment. EUCI courses are on the mark!”

Director, Indiana State Government

REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must sign in/out each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

INSTRUCTIONAL METHODS

This course will use PowerPoint presentations and group discussions.

EVENT LOCATION

EUCI Conference Center

4601 DTC Blvd., B-100
Denver, CO 80237

NEARBY HOTELS

Preferred Hotel

Hyatt Place Denver Tech Center

8300 E. Crescent Parkway, Greenwood Village, CO 80111 (0.9 miles away)

Call Central Reservations at **888-492-8847** and ask for the corporate rate of \$159 under the **Group Code: EUCI**.

or visit https://denvertechcenter.place.hyatt.com/en/hotel/home.html?corp_id=102338 for the corporate rate using the

Group Code: EUCI

Hyatt Regency Denver Tech Center

7800 E. Tufts Ave
Denver, CO 80237
Phone: 303-779-1234
0.3 miles away

Hilton Garden Inn Denver Tech Center

7675 E. Union Ave
Denver, CO 80237
Phone: 303-770-4200
0.6 miles away

Denver Marriott Tech Center

4900 S. Syracuse St
Denver, CO 80237
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0.7 miles away

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EUCI is authorized by IACET to offer 1.0 CEUs for the course.

REGISTER 3, SEND THE 4TH FREE

Any organization wishing to send multiple attendees to this course may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.

Please make checks payable to: "PMA"



EVENT LOCATION

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4601 DTC Blvd., B-100
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See nearby hotels on page 5

SPECIAL PRICE FOR BOTH FUNDAMENTALS OF CYBER SECURITY FOR UTILITIES AND FUNDAMENTALS OF CYBER SECURITY FOR NUCLEAR PLANTS

NOVEMBER 13-15, 2018: US \$2195
EARLY BIRD on or before OCTOBER 26, 2018: US \$1995

FUNDAMENTALS OF CYBER SECURITY FOR UTILITIES COURSE

NOVEMBER 13-14, 2018: US \$1395
EARLY BIRD on or before OCTOBER 26, 2018: US \$1195

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

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OR Enclosed is a check for \$ _____ to cover _____ registrations.

Substitutions & Cancellations

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before October 12, 2018 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at (201) 871-0474