NERC FUNDAMENTALS AND COMPLIANCE

October 15-16, 2019
Hyatt Regency Suites Atlanta Northwest
Atlanta, GA

RELATED EVENT:
NERC CRITICAL INFRASTRUCTURE PROTECTION (CIP)
October 16-17, 2019 | Atlanta, GA

“Very helpful to understand the history of NERC and why it was developed. Helped me understand how I can continually prepare myself and my organization for an audit, by reviewing the RSAWs annually.”

Engineer Senior,
Lightstone Generation

EUCI is authorized by IACET to offer 1.2 CEUs for the course

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OVERVIEW

Bulk electric system entities registered with the North American Electric Reliability Corporation (NERC) continue to wrestle with the complexities of the NERC reliability standards implementation, compliance, and enforcement process. Full audit schedules within each regional entity ensure that the stakes remain high. Critical Infrastructure Protection (CIP) standards add another level of complexity, further demonstrating to the power industry the difficulties of legislating reliability and security.

With the increasing number of new generation and transmission projects being proposed and built, it’s important to understand the implications of being a NERC registered entity and the complicated and costly process of compliance. This course is a great place to start for organizations that are a part of the bulk power system in North America. There are a host of important factors to consider that can have a significant impact on operations. One of the key tenets that supports compliance, or can help mitigate a penalty, is a robust culture of compliance. To demonstrate a culture of compliance, a registered entity must show an enterprise-wide commitment to the process.

This course is an in-depth introduction to NERC standards, compliance, and monitoring and is designed to give the necessary background for all staff to understand the concepts and complexities of NERC compliance in order to communicate and build a culture of compliance and reliability and prepare for upcoming audits.

LEARNING OUTCOMES

- Define the role of FERC, NERC and Regional Entities
- Review the background for the NERC standards and discuss major recent revisions
- Explain how violations are determined and identify which standards are the most violated
- Define a culture of compliance and its importance in the compliance monitoring and enforcement process
- Examine strategies to build an internal compliance program
- Examine the NERC CIP requirements: Current version and upcoming revisions
- Analyze the audit process and demonstrate strategies for success before, during, and after an audit
- Discuss emerging trends in NERC compliance including CIP Version 5, the Risk Based CMEP, the new and emerging standards on Physical Security, Geomagnetic Disturbances, Distributed Energy Resources, etc.

WHO SHOULD ATTEND

- NERC registered entity administrative and support staff
- Compliance managers and directors
- Generation owners and operators to include IPPs and renewable energy project developers
- Transmission owners and operators, including merchant transmission projects
- Attorneys and regulators
- Regional entity and RTO/ISO staff

“Very informative and time well spent.”
Compliance Superintendent, Alameda Municipal Power

“Very good orientation to NERC as an important organization in the electric industry.”
Compliance Coordinator, NAES Inc.
AGENDA

TUESDAY, OCTOBER 15, 2019

8:00 – 8:30 am  Registration and Continental Breakfast

8:30 am – 5:00 pm  Course Timing

12:00 – 1:00 pm  Group Luncheon

Overview of NERC Reliability Standards and Requirements
- NERC as the ERO
- Overview of entity registration
- Standards background and drafting process
- Trajectory of standards
  - Results based standards
  - Regional standards
- Compliance and enforcement
- Analysis of most violated non-CIP standards: Hot spots for current versions as well as status of revisions
  - PRC 005
  - FAC 008/009
- NERC compliance in practice
- Define “culture of compliance” and strategies to build, communicate and demonstrate a culture of compliance, as mandated by NERC
- The role of a culture of compliance in mitigation
- Preparing for an audit: What to do before, during and after an onsite compliance audit: successful strategies and avoiding common pitfalls
- Discuss the settlement process that occurs after a violation has been found
- Recognize how NERC compliance fits with other enterprise compliance needs and risk management
- Managing documentation and evidence
- Demonstrating a culture of compliance to auditors
- Risk Based CMEP and what it means to you

WEDNESDAY, OCTOBER 16, 2019

8:00 – 8:30 am  Continental Breakfast

8:30 am – 12:00 pm  Course Timing

NERC Critical Infrastructure Protection (CIP)
This session will provide an overview of the NERC CIP Reliability Standards and provide insight into what it takes to comply with the same on an ongoing basis.
- Introduction
- History and background of the NERC CIP reliability standards
- Common assumptions and mistakes
- Prevalent NERC CIP compliance challenges
- A word about CIP v5/v6
- Overview of the NERC CIP reliability standards
AGENDA

WEDNESDAY, OCTOBER 16, 2019 (CONTINUED)

- NERC CIP v5/v6
  - Overview of Version 5 NERC Cyber Security Standards
  - Notable differences between Version 3 and Version 5 NERC CIP reliability standards
- Tools and resources
  - A few words about “tools” and NERC CIP compliance
  - Active vulnerability assessment tools
  - Danger: Active scanning of ICS environments is risky business!
  - Resources
- Emerging issues and new standard

INSTRUCTORS

Ryan Carlson, CISSP, PSP
Vice President - Critical Infrastructure Protection Services, Proven Compliance Solutions

Ryan has over 25 years of experience in Cyber Security, IT project management, network system engineering, and network/server system administration. Ryan's career has been devoted exclusively to assisting clients with their NERC Critical Infrastructure Protection (CIP) compliance program needs since 2008. Ryan has conducted hundreds of CIP mock audit/gap analysis projects over the last 10 years and participated in dozens of regional CIP audits as an expert advisor, observer, and embedded Subject Matter Expert. Ryan is actively involved in monitoring the CIP Standards development process by attending NERC Critical Infrastructure Protection Committee (CIPC) meetings, as well as numerous NERC/regional CIP user group meetings and conferences. Ryan is an active member of the NERC Compliance Input Working Group (CEIWG) and the NERC Supply Chain Working Group. Ryan is a Certified Information Systems Security Professional (CISSP) and Physical Security Professional (PSP) and holds a Bachelor's Degree in Economics, International Relations and Marketing from the University of Minnesota.

Mitchell E. Needham, P.E.
Vice President – NERC Consultation Services O&P, Proven Compliance Solutions

Mitchell’s industry experience spans over 40 years in the electric power industry, including 28 years with the Tennessee Valley Authority prior to working for NERC. Mitchell is both a former NERC Readiness Auditor and Regional Compliance Oversight Liaison for two NERC Regions and received NERC and FERC training in reliability compliance auditing. He has extensive experience conducting actual and mock audits of BES O&P and CIP Reliability Standards with expertise in protective relaying, process development, power system operations, reliability benchmarking, and compliance management. Mitchell is a registered Professional Engineer in the State of Tennessee, holding license #15926 and holds a Master of Science, Electrical Engineering (University of Tennessee - Chattanooga), & Bachelor of Science in Electrical Engineering (University of Tennessee – Knoxville).
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

PowerPoint presentations and open discussion will be used in this course.

IACET CREDITS

EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard.

EUCI is authorized by IACET to offer 1.2 CEUs for the course.

EVENT LOCATION

A room block has been reserved at the Hyatt Regency Suites Atlanta Northwest, 2999 Windy Hill Rd SE, Marietta, GA 30067, for the nights of October 14-16, 2019. Room rates are US $151 plus applicable tax. Call 1-770-956-1234 for reservations and mention the EUCI event to get the group rate. The cutoff date to receive the group rate is September 14, 2019 but as there are a limited number of rooms available at this rate, the room block may close sooner. Please make your reservations early.

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.

“Thank you for a pleasant and informative conference experience.”
Transmission Control Advisor, San Diego Gas & Electric

“Good introduction and history into the world of NERC compliance.”
GM-Engineering Services, Duke Energy
PLEASE REGISTER

SPECIAL COMBO PRICE  NERC FUNDAMENTALS AND COMPLIANCE AND NERC CRITICAL INFRASTRUCTURE PROTECTION (CIP) COURSES  
OCTOBER 15-17, 2019: US $2195  
Early bird on or before September 27, 2019: US $1995

NERC FUNDAMENTALS AND COMPLIANCE ONLY  
OCTOBER 15-16, 2019: US $1395  
Early bird on or before September 27, 2019: US $1195

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

Print Name  Job Title

Company

What name do you prefer on your name badge?

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List any dietary or accessibility needs here

CREDIT CARD INFORMATION

Name on Card  Billing Address

Account Number

Exp. Date  Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)  Billing Zip Code/Postal Code

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 September 13, 2019 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 303-770-8800. EUCi reserves the right to alter this program without prior notice.