





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
- Understanding emerging trends in NERC compliance including CIP Version 5, the Reliability Assurance Initiative (RAI),
 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



"Excellent content – helps put standards into context. Everyone responsible for managing FERC/NERC issues should participate in this course."

Sr. Instructor (FERC/NERC), Xcel Energy

COURSE TIMING

WEDNESDAY, AUGUST 2, 2017

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

8:30 am – 5:00 pm Course Timing

12:00 – 1:00 pm Group Luncheon

AGENDA

Overview of NERC Reliability Standards and Requirements

- o NERC as the ERO
- o Overview of entity registration
- o Standards background and drafting process
- o Trajectory of standards
 - Results based standards
 - Regional standards
- o Compliance and enforcement
- o Analysis of most violated non-CIP standards: Hot spots for current versions as well as status of revisions
 - CIP
 - 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
- Reliability Assurance Initiative and what it means to you



"This seminar is helpful for those who are trying to determine how to establish a compliance program or are not sure what NERC is looking for during a compliance audit."

Associate, Venable, LLP

COURSE TIMING

THURSDAY, AUGUST 3, 2017

8:00 – 8:30 am Continental Breakfast

8:30 am – 12:00 pm Course Timing

AGENDA

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 (Version 3)
- A Word about CIP Version 5
- Overview of the NERC CIP v3 reliability standards
- NERC CIP v5
 - o Overview of Version 5 NERC Cyber Security Standards
 - o Notable differences between Version 3 and Version 5 NERC CIP Reliability Standards
- Tools and resources
 - o A few words about "tools" and NERC CIP compliance
 - o Active vulnerability assessment tools
 - o Danger: Active scanning of ICS environments is risky business!
 - o Resources
- Emerging issues and new standards



"A wonderful learning experience for both new consumers to, and veterans of the world of NERC Compliance."

Associate, Venable, LLP



"If your organization involves internal audit in your NERC compliance program, this is a must attend program for interal auditors."

Sr. Internal Auditor, FortisBC Inc.

INSTRUCTOR



David W. Hilt
P.E., President and Owner of Grid Reliability Consulting

Mr. Hilt has nearly 40 years of experience in electric power system engineering, operation, and regulatory activities. He has been a manager responsible for the design, specification, and construction of electric substations from distribution to EHV including protective relaying. He has also managed transmission and resource planning activities for a major Midwestern electric and natural gas utility providing expert testimony before FERC and state regulators for transmission expansion and 20 year resource plans. Mr. Hilt has directed the development and installation of state estimation and OASIS systems for a Midwestern Reliability Coordination Center. As a Vice President at NERC, he led the development of the compliance monitoring and enforcement program for the bulk-power system reliability standards in North America working closely with the industry, FERC, and Canadian regulatory authorities. He also developed audit programs and event analysis and investigation preprocess. While at NERC he led the investigation of the August 2003 blackout in the Northeastern United States and Canada providing the technical input to the U.S. - Canada Power System Outage Task Force report. Mr. Hilt's recent experience includes assessment of risk from physical attack and grid resiliency.



"Presentations stimulated very good discussion. This was a good forum for open, meaningful discussion of the topics"

Manager, Security, Dominion Resources



"Extremely helpful for people to new NERC reliability standards"

Director, Generation Support, Dairyland Power Cooperative



"The quality and content of the speakers and presentations was excellent"

Manager-Client Services, CH2M Hill

INSTRUCTIONAL METHODS

This course will use PowerPoint presentations and group discussions.

REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must sign in/out each day and be in attendance for a minimum of four hours to be eligible for any continuing education credit.

IACET CREDITS



AUTHORIZED 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 1.0 CEUs for the course

EVENT LOCATION

A room block has been reserved at the Westchester Marriott, 670 White Plains Road, Tarrytown, NY 10591, for the nights of August 1-3, 2017. Room rates are \$165 USD, plus applicable tax. Call **914-631-2200** for reservations and mention the EUCI event to get the group rate. The cutoff date to receive the group rate is July 3, 2017 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 conference may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.



PLEASE REGISTER

	BOTH NERC COMPLIANCE FUNDAMENTALS AND
	NERC CIP: A DEEPER DIVE COURSES:
	AUGUST 2-4, 2017 WESTCHESTER, NY: US \$2195,
	Early bird on or before July 14, 2017: US \$1995
	,
	NERC COMPLIANCE FUNDAMENTALS COURSE:
	NERC COMPLIANCE FUNDAMENTALS COURSE: AUGUST 2-3, 2017 WESTCHESTER, NY: US \$1395, Early bird on or before July 14, 2017: US \$1195
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Please make checks payable to: "PMA"

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How did you hear about this e	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 June 25, 2017 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.