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NERC Critical Infrastructure Protection (CIP) Boot Camp

This five-day boot camp provides a detailed overview of and teaches how to comply with the North American Electric Reliability Corporation Critical Infrastructure Protection (NERC CIP) standards.

Course description

The Critical Infrastructure Protection (CIP) set of standards was developed by the North American Electric Reliability Corporation (NERC) to ensure the protection of any assets used to operate North America's Bulk Electric System (BES). Any entity that owns or operates any type of BES in the United States, Canada and Mexico must be compliant with NERC CIP requirements.

This boot camp provides a thorough review and analysis of NERC CIP standards currently subject to enforcement, as well as the ones that are subject to future enforcement. It discusses the history and background of NERC CIP, the process of development and implementation of new standards, the role of the Federal Energy Regulatory Commission (FERC) and Regional Entities, the reasons behind common compliance violations, and best practices for building an effective compliance program.

Who should attend

» Bulk Electrical System (BES) asset owners and operators
» Operations and support personnel
» Compliance managers, coordinators and analysts
» Professionals responsible for Critical Infrastructure Protection
» Anyone who wants to learn more about the NERC CIP standards

Boot camp at a glance

🎓 What you'll learn

✓ Understand the role of FERC, NERC and Regional Entities
✓ Use effective strategies to build a compliance program
✓ NERC CIP standards, revisions and compliance trends

🖥 Delivery methods

✓ Online
✓ In person
✓ Team onsite

⏱ Training duration

✓ Immediate access to Infosec Skills
✓ 5-day boot camp
✓ 90-day extended access to all boot camp materials

The hands-on cybersecurity training platform that moves as fast as you do

Infosec Skills boot camps are engineered to match the way today's cybersecurity professionals prefer to learn. In addition to days of live training from an experienced pro, you'll get unlimited access to 100s of additional hands-on cybersecurity courses and cyber ranges to help you advance your skills before, during and after your boot camp. Your Infosec Skills access extends 90 days past your boot camp, so you can take additional time to prepare for your exam, or get a head start on your next certification goal.

Start training immediately
Prepare for your boot camp with immediate access to the Infosec Skills on-demand training library.

Learn by doing in the cyber range
Put what you've learned into practice with 100s of browser-based labs and hands-on projects.

Get unlimited custom practice exams
Uncover knowledge gaps with unlimited practice exams attempts and skill assessments.

700+ IT and security courses
Earn CPEs and build new skills with 100s of additional training courses.

What's included

» Five days of expert, live NERC CIP training
» 100% Satisfaction Guarantee
» Free 90-day Infosec Skills subscription (access to 1,400+ additional courses and labs)
» 90-day extended access to all boot camp video replays and materials
» Knowledge Transfer Guarantee

Boot camp overview

After attending this NERC CIP Boot Camp, you will be able to:
» Thoroughly understand the purpose and specific requirements of current and upcoming NERC CIP standards
» Implement best practices for building an effective NERC CIP compliance program
» Evaluate the impact of emerging trends on BES Cyber Systems

What you'll learn

» Introduction to NERC, FERC and NERC CIP
» Short history of NERC CIP
» What does it mean to comply with NERC CIP?
  » Audit considerations
  » The NERC standards development process
  » Interpretation questions
  » How a NERC CIP program works
  » Fines are going up!
» What are the currently-enforceable CIP standards? What is coming soon?
» CIP-002: Sets scope for NERC CIP
» CIP-003: Security awareness, security training, security policies and low impact requirements
  » New version of CIP-003 coming 1/1/20, including electronic access control for low impact assets
» CIP-004: Personnel

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- » CIP-005: Firewalls, electronic security perimeters, interactive remote access
- » CIP-006: Physical security of BES Cyber Systems
- » CIP-007: Systems security management
- » CIP-008: Incident response plans
- » CIP-009: Backup and recovery plans
- » CIP-010: Configuration management, security vulnerability assessments, laptops and USB sticks
- » CIP-011: Information protection, device disposal or reuse
- » CIP-012: Protection of communications between control centers (coming 2021 or 2022?)
- » CIP-013: Supply chain security (in force 7/1/20)
- » CIP-014: Physical protection of key substations
  - » Current standards drafting initiatives
  - » Incorporating virtualization into the existing standards
  - » BES Cyber System information in the cloud
  - » Version 2 of CIP-013
- » The biggest issue in NERC CIP today: Why can't we put BES Cyber Systems in the cloud?
  - » Not a very happy story at this point
  - » However, it will inevitably happen
- » What's the longer-term direction for NERC CIP?

- » Risk-based standards
- » "Real-time" standards development
- » Will CIP be taken away from NERC and FERC?

Learn from experts

We don't just have great instructors, our instructors have years of industry experience and are recognized as experts. Over the past 15 years, we've helped tens of thousands of students get certified and advance their careers.

After your boot camp

Your Infosec Skills access extends 90 days past your boot camp, so you can take additional time to prepare for your exam, get a head start on your next certification goal or start earning CPEs.

Skill up and get certified, guaranteed

100% Satisfaction Guarantee

If you're not 100% satisfied with your training at the end of the first day, you may withdraw and enroll in a different online or in-person course.

Knowledge Transfer Guarantee

If an employee leaves within three months of obtaining certification, Infosec will train a different employee for free for up to one year.

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What our students are saying

Incredible! I have attended classes where the instructor just read PowerPoints — our instructor added so much additional information to the class and knows the field of security inside and out! I was very pleased with his knowledge and instructional skills.

Sheree Moore
Mobile County Public Schools

I went to West Point for my bachelor's, Columbia for my master's and had multiple Army-led courses, and this ranks as one of the best, most engaging courses that I have ever had.

William Jack
Deloitte Consulting, LLC

The instructor was able to take material that prior to the class had made no sense and explained it in real-world scenarios that were able to be understood.

Erik Heiss
United States Air Force

About Infosec

Infosec's mission is to put people at the center of cybersecurity. We help IT and security professionals advance their careers with skills development and certifications while empowering all employees with security awareness and phishing training to stay cyber-safe at work and home. Learn more at infosecinstitute.com.

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