SCSHE Virtual Conference

Date: December 3 – 4, 2026

Time: 8:00am - 12:00pm

SCSHE
SC SOCIETY OF HOSPITAL ENGINEERS

Committed to A Better State of Health

Thursday, December 3, 2026

Welcome

8:00 am – 8:05 am

- Keith Vaughn | SCSHE President | Director Facilities Engineering, Prisma Health

DNV Healthcare USA Inc. Update *and Frequent Nonconformities*

8:05 am – 9:00 am | Speaker:

- Don Metcalf, CIH, CHFM, CHOP-B |Standards Application & Interpretation Specialist, DNV Healthcare USA Inc.

Electrification Without Compromise: A Risk-Based DNV Healthcare Perspective on EV Charging Stations and Lithium-Ion Batteries

9:00 am – 10:00 am | Speaker:

- Scott Mason, CHOP, FRSHP(UK), HCC| Executive Director, Business Development and Sales, DNV Healthcare USA Inc.

Is your Risk Assessment a Risk

10:00am – 11:00am

- Don Metcalf, CIH, CHFM, CHOP-B |Standards Application & Interpretation Specialist, DNV Healthcare USA Inc.

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Friday, December 4, 2026

Welcome

9:00 am

- Keith Vaughn | SCSHE President | Director Facilities Engineering, Prisma Health

From Static Setpoints to Dynamic Optimization: Implementing ASHRAE Guideline 36 Trim and Respond Sequences in Healthcare Facilities

9:00 am – 10:00 am | Speaker:

- Jacob Warner, MBA, CEM | Director of Energy & Facility Infrastructure, Prisma Health

The New Risks of AI in Healthcare Facilities

10:00 am – 11:00 am | Speaker:

- Charles “Chuck” Stevens, BS, CHOP A, CHSP | Program Coordinator for Physical Environment Education, DNV Healthcare USA Inc.

Business Meeting

11:00 am – 12:00 am | Speaker:

- Keith Vaughn | SCSHE President | Director Facilities Engineering, Prisma Health

Speaker Biographies

Don Metcalf, Don enjoys working with organizations to foster a culture of quality and sustainable patient cantered, safe care. His impassioned approach to safety, infection prevention, and risk management in the physical environment led him to a career with DNV. Don has 30+ years of professional safety and industrial hygiene experience, both in general industry and healthcare. Prior to joining DNV, he managed the Physical Environment program for a 600+ bed hospital along with the associated urgent care, ambulatory care, and business locations. He also worked as a consultant for healthcare organizations across the United States. His experience includes performing surveys/audits for life safety, physical environment, and infection prevention, as well as risk assessments, accident investigations, exposure monitoring, indoor air quality investigations, and ergonomic evaluations. Currently, Don serves as part of DNV’s Standards Application and Interpretation team, providing standards support, interpretation, and development. Don has a Bachelor of Science in Biology and holds certifications in Healthcare Facility Manager (CHFM) from the American Hospital Association, Healthcare Operations Professional (CHOP) from DNV Healthcare, ISO 9001 Lead Auditor, NIAHO® Lead Auditor.

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Scott Mason, CHOP, FRSHP(UK), HCC, Director of Business Development & Sales, DNV Healthcare
As a 30+ year professional, Scott Mason recently joined DNV Healthcare as the Executive Director of Business Development. Scott's professional knowledge complements the team's growing list of multi-disciplined experts including: Accreditation, Certification, Training, Administrative, and Sales professionals. Scott's background includes sales, sales management, general, service, and operational management, SimplexGrinnell Certified Project Manager Certification, TYCO Six Sigma Green Belt Certification, Certified Kaizen Facilitator, business consulting, life coaching, strategic development, and change management facilitator.

Poised to impact DNV, Scott leads, directs, and guides DNV's sales organization in assisting clients in making measurable improvements and patient outcomes. Scott holds a Certified Healthcare Operations Professional (CHOP), and Health Care Construction (HCC) certification through the American Hospital Association (AHA) and is a recognized Fellow of the Royal Society of Health Professionals (FRSHP). He has an MA in Organizational Leadership – Organizational Development Consulting Concentration from Regent University and a BSBM in Business from Cornerstone University. Scott's approach to life furthers his passion of helping, coaching and mentoring others in his new position at DNV. With his proactive and positive approaches, Scott looks forward to helping and protecting clients as together "We Care, We Dare, We Share"

Jacob Warner, MBA, CEM is the Director of Energy & Facility Infrastructure for Prisma Health with more than 10 years of experience in healthcare energy management. He holds an MBA from The Citadel, a bachelor's degree in Management from Clemson University, and is a Certified Energy Manager. His areas of expertise include HVAC optimization, central utility plant operations, building automation systems, energy management, and healthcare facility infrastructure performance. Jacob is passionate about helping healthcare organizations improve reliability, efficiency, and operational resilience through data-driven decision making.

Charles "Chuck" Stevens, BS, CHOP A, CHSP is the Program Coordinator for Physical Environment Education at DNV Healthcare USA Inc.. He develops and delivers educational programs focused on healthcare facility operations, regulatory compliance, life safety, risk management, and accreditation readiness.

Holding a Bachelor of Science in Information Technology Systems Design, Charles combines expertise in healthcare facilities, safety, Life Safety, and operational risk management. His areas of focus include healthcare physical environment compliance, utility management, emergency preparedness, facility infrastructure, artificial intelligence, and cybersecurity.

Charles supports the development and administration of DNV Healthcare's CHOP® certification programs and works with healthcare leaders, facility managers, engineers, and safety professionals to improve operational reliability, workforce competency, and organizational resilience. He frequently presents on healthcare facility operations, emerging technologies, and practical risk management strategies.

Abstracts:

DNV Healthcare USA Inc. Update and Frequent Nonconformities: This session explores the DNV accreditation survey process and the principles that drive successful healthcare compliance and performance improvement. Participants will learn the value of collaboration over confrontation, the importance of understanding and applying applicable codes and standards, and best practices for developing effective corrective action plans. Through practical examples and quality management concepts, attendees will gain strategies to strengthen compliance, improve patient safety, and support continual organizational improvement.

Learning Objectives

- Describe the purpose and methodology of the DNV accreditation survey process.
- Differentiate between collaborative and confrontational approaches to surveys.
- Identify and apply relevant healthcare codes, standards, regulations, and accreditation requirements.
- Analyze common survey findings.
- Discuss the corrective action process using the ISO 9001 (2015) requirements.

Electrification Without Compromise: A Risk-Based DNV Healthcare Perspective on EV Charging Stations and Lithium-Ion Batteries Hospitals are accelerating electrification by installing electric vehicle (EV) charging stations, expanding the use of lithium-ion-powered medical and information technology devices, and evaluating battery energy storage systems (BESS) to support resilience and sustainability. These technologies provide important operational and environmental benefits, but they also introduce high-energy hazards, new ignition sources, continuous electrical loads, and complex failure modes into care environments where tolerance for disruption is minimal. Lithium-ion batteries are now embedded throughout healthcare operations, including infusion pumps, portable monitors, workstations on wheels, radios, personal electronics, vehicles, and stationary energy systems. When damaged, improperly charged, exposed to heat, or subject to internal failure, these batteries may enter thermal runaway, release heat and flammable gases, and reignite after initial suppression. The consequences are amplified in healthcare facilities because patients may have limited mobility, oxygen-enriched environments may be present, staff must remain responsible for patient care, and clinical operations must continue during an emergency.

EV charging infrastructure addsa system-level risk. Although EV supply equipment is addressed by NEC Article 625, installation compliance does not by itself resolve operational concerns such as charger proximity to emergency entrances, air intakes, occupied buildings, fire lanes, pedestrian routes, utilities, or critical electrical capacity. Likewise, BESS installations may require alignment with NFPA 855 and supporting UL 9540 and UL 9540A evidence. Healthcare organizations must therefore consider not only design and installation, but also ongoing inspection, maintenance, monitoring, emergency response, and organizational oversight.

This session presents a practical, risk-based control model through the DNV Healthcare lens. The approach applies the ISO 9001 principles embedded in DNV Healthcare's NIAHO® accreditation framework: identify risk early, establish preventive and mitigating controls, document processes, evaluate effectiveness, and continuously improve. Participants will examine three connected layers of protection. Prevention includes safe siting, listed equipment, designated charging areas, approved chargers, and clear procedures for damaged or overheating batteries. Detection includes Environment of Care rounding, inspection and maintenance records, incident and near-miss tracking, and BESS monitoring and commissioning evidence. Response includes updated fire plans, staff training, escalation pathways, and pre-incident coordination with local fire authorities.

The session will help facility and quality leaders translate technical requirements into survey-ready governance. Attendees will learn how to build an organization-wide risk assessment, map controls to identified hazards, assign accountability, document staff competency, track evidence, and use the Plan-Do-Check-Act cycle to improve control effectiveness. The objective is not to slow electrification, but to enable innovation without compromising patient safety, operational resilience, emergency access, or accreditation readiness.

Learning Objectives

- Identify the principal electrical, fire, operational, access, and patient-safety risks associated with EV charging, lithium-ion devices, and battery energy storage in healthcare settings.
- Apply a prevention, detection, and response control model to charger siting, battery charging and storage, inspection, maintenance, monitoring, and emergency preparedness.
- Develop a documented, organization-wide risk assessment that maps hazards to accountable controls, staff competencies, records, and evidence of control effectiveness.
- Use ISO 9001 Plan-Do-Check-Act principles and DNV Healthcare accreditation expectations to strengthen continuous improvement and survey readiness.

Is Your Risk Assessment as Risk: This presentation provides a standardized Risk Assessment Development Process that integrates the requirements of ISO 9001:2015 and NIAHO® 25-1 (updated) Accreditation Requirements, Interpretive Guidelines, and Surveyor Guidance for Hospitals. It provides a structured framework for identifying, evaluating, mitigating, monitoring, and continually improving risks while supporting patient safety, quality outcomes, regulatory compliance, leadership accountability, and ongoing process improvement.

Learning Objectives

- Strengthen evidence-based decision making
- What does “risk assessment” look like?
- Apply ISO 9001:2015 requirements and risk-based thinking principles to ensure a systematic approach to identifying risks and opportunities Incorporation of ISO 9001 2026 risk-based thinking
- Ensure the assessment considers applicable accreditation standards, Conditions of Participation
- Improve identification and mitigation of organizational risk

From Static Setpoints to Dynamic Optimization: Implementing ASHRAE Guideline 36 Trim and Respond Sequences in Healthcare Facilities Abstract Healthcare facilities face increasing pressure to improve energy efficiency, maintain environmental compliance, and extend the life of critical HVAC infrastructure while ensuring patient comfort and safety. ASHRAE Guideline 36 has emerged as the industry's leading high-performance HVAC control framework, with "Trim and Respond" control methodologies serving as one of its foundational optimization strategies. This presentation provides a practical introduction to Trim and Respond control sequences, explaining the underlying theory, operational benefits, and role within ASHRAE Guideline 36. Attendees will learn how Trim and Respond differs from traditional fixed setpoint control methods and how it dynamically adjusts system operation based on real-time building demand. The session will review the instrumentation, sensors, and data points required to successfully implement Trim and Respond strategies across air handling systems, chilled water systems, hot water systems, static pressure control loops, and temperature reset applications. Participants will gain an understanding of the capabilities currently available within major building automation platforms, including but not limited to Johnson Controls Metasys, Siemens Desigo, Trane Tracer, as well as emerging developments within other control platforms. Special emphasis will be placed on healthcare applications, where facility operators must balance energy savings with infection prevention requirements, ventilation standards, and operational reliability. Real-world examples will illustrate how hospitals can begin implementing Guideline 36 principles using existing building automation systems, often without major capital investment. Attendees will leave with a roadmap for assessing current BAS readiness, identifying required instrumentation, selecting appropriate applications, and developing a phased implementation strategy that can improve operational performance while supporting organizational energy and sustainability goals.

Learning Objectives

At the conclusion of this presentation, attendees will be able to:

- Explain the principles of Trim and Respond control and its role within ASHRAE Guideline 36.
- Identify the sensors, instrumentation, and BAS requirements necessary to implement Guideline 36 optimization strategies.
- Evaluate building automation platforms and HVAC systems that can support Trim and Respond applications.
- Develop a practical implementation roadmap for applying Guideline 36 sequences to existing healthcare facilities using current control infrastructure.

The New Risks of AI in Healthcare Facilities

Artificial Intelligence (AI) is rapidly expanding beyond clinical applications and becoming embedded within healthcare facility operations. From predictive maintenance and building automation to energy management, environmental monitoring, asset tracking, work-order prioritization, and infrastructure management, AI-enabled technologies are increasingly influencing how healthcare facilities operate and make decisions. As these technologies become

integrated into critical building systems, healthcare organizations face an important question: Who is responsible for governing the risks associated with AI?
This session will provide healthcare facility leaders, engineers, facility managers, safety professionals, and operational decision-makers with a practical framework for identifying, evaluating, and managing AI-related risks within the healthcare physical environment. Using the principles of ISO 9001:2015, participants will explore how risk-based thinking, leadership accountability, operational controls, competency, supplier oversight, performance monitoring, and continual improvement can be applied to AI-enabled facility technologies.

The session will also examine cybersecurity risks associated with AI-enabled facility infrastructure, including building automation systems, HVAC controls, utility management platforms, security systems, and connected devices. Participants will learn how ransomware, unauthorized access, compromised sensors, manipulated data, and disruptions to AI-driven decision-making can affect operational reliability, infrastructure performance, and business continuity.

Drawing upon ISO 9001:2015 and the NIST AI Risk Management Framework, this program will present practical strategies for evaluating AI technologies, establishing appropriate oversight, defining operational boundaries, monitoring system performance, and responding when technology does not perform as expected. The goal is to help healthcare organizations adopt AI safely while maintaining operational reliability, compliance, and organizational resilience.

Learning Objectives

- Identify common AI applications and associated risks within healthcare facility operations.
- Apply ISO 9001 risk-based thinking principles to AI governance and oversight.
- Recognize cybersecurity threats affecting AI-enabled building systems and infrastructure.
- Develop practical governance controls to support safe, reliable, and resilient facility operations.

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