

AEM in Practice:

Implementing and Improving Alternate Equipment Maintenance Programs

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2:45 – 3:45 pm PDT



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Level Up Your Safety, Savings, and Sanity



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Welcome to the Game

Let's assess your AEM program across three key areas:



- **Policy & Documentation:** Do you have a formal AEM policy and documented justifications?
- **Risk Assessment:** Are you using risk-based tools to assess equipment before inclusion?
- **Continuous Improvement:** Are you regularly reviewing and adjusting your AEM strategies based on performance data?

MISSION START!



Let's assess your AEM program across three key areas

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Policy & Documentation

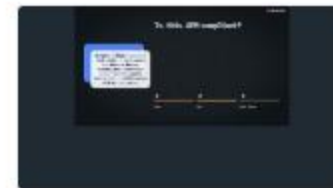
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Risk Assessment

0%
Continuous Improvement

0%
Not Applicable to my organization

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AEM MD Expo

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Our Objectives

- Understand the AAMI/ANSI AEM standard
- Implement and document a compliant AEM program
- Continuously improve for safety, reliability, and efficiency



Why AEM? Why Now?



- Improves safety, efficiency, and compliance
- A risk-based and evidence-informed approach to optimizing maintenance strategies
- Aligns with CMS Conditions of Participation (CoPs) and other Authorities Having Jurisdiction (AHJs), such as NFPA 99, ACR, CLIA, and AABB

Know the Standard – Boss Level 1

Risk-based evaluation is required



Justify deviations



Track decisions and performance



What AEM is *Not*

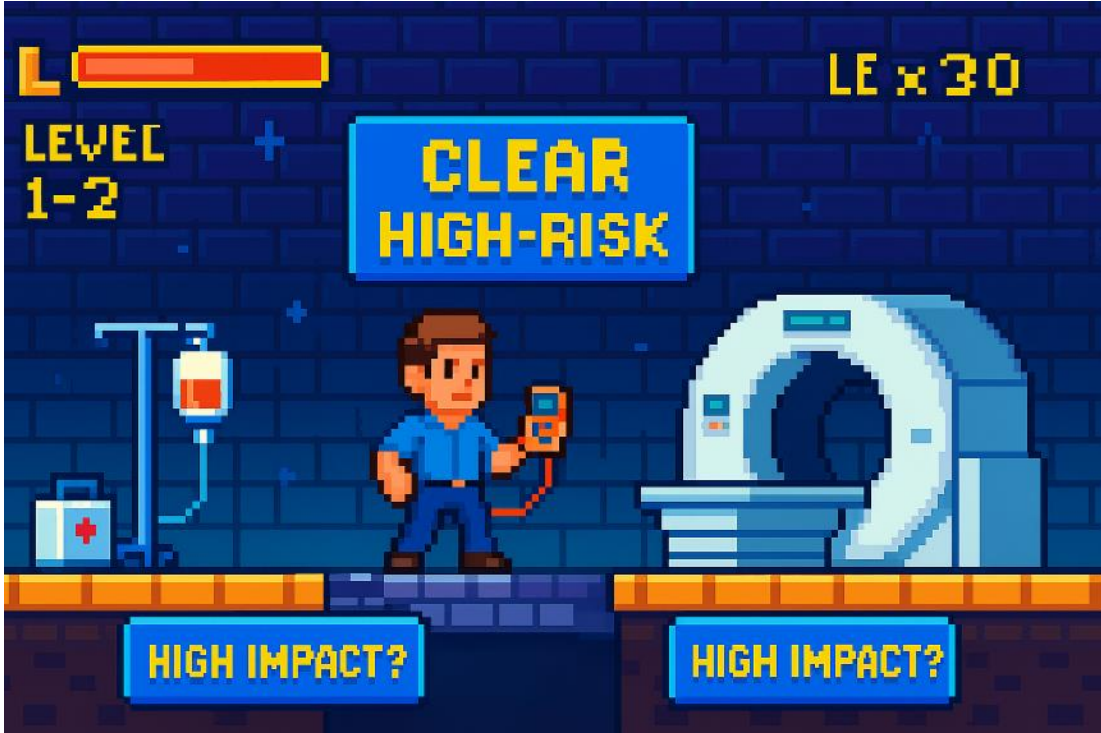
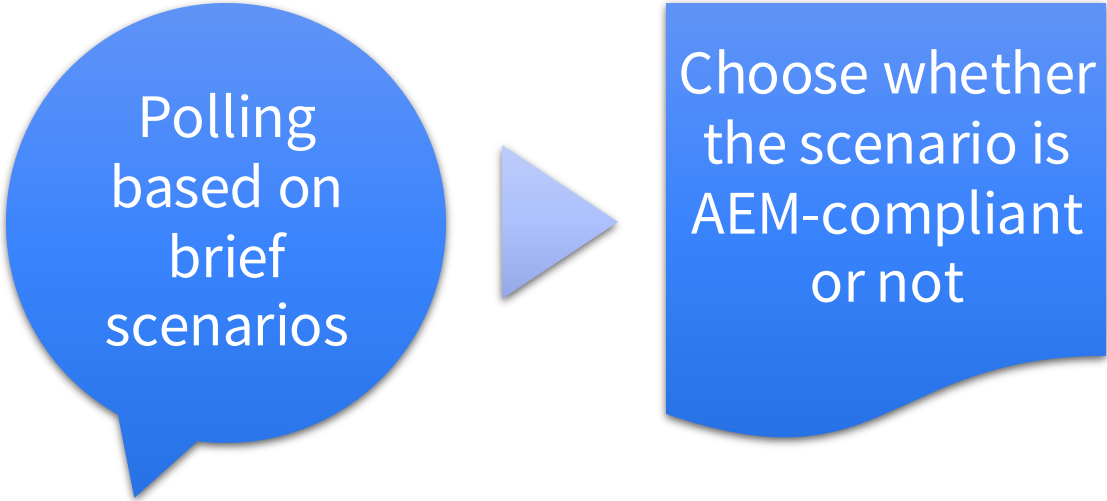


“Remove PMs
and call it AEM”
≠ compliance

“OEM doesn’t
matter” ≠ true

“We’ll figure it
out later” =
survey trap

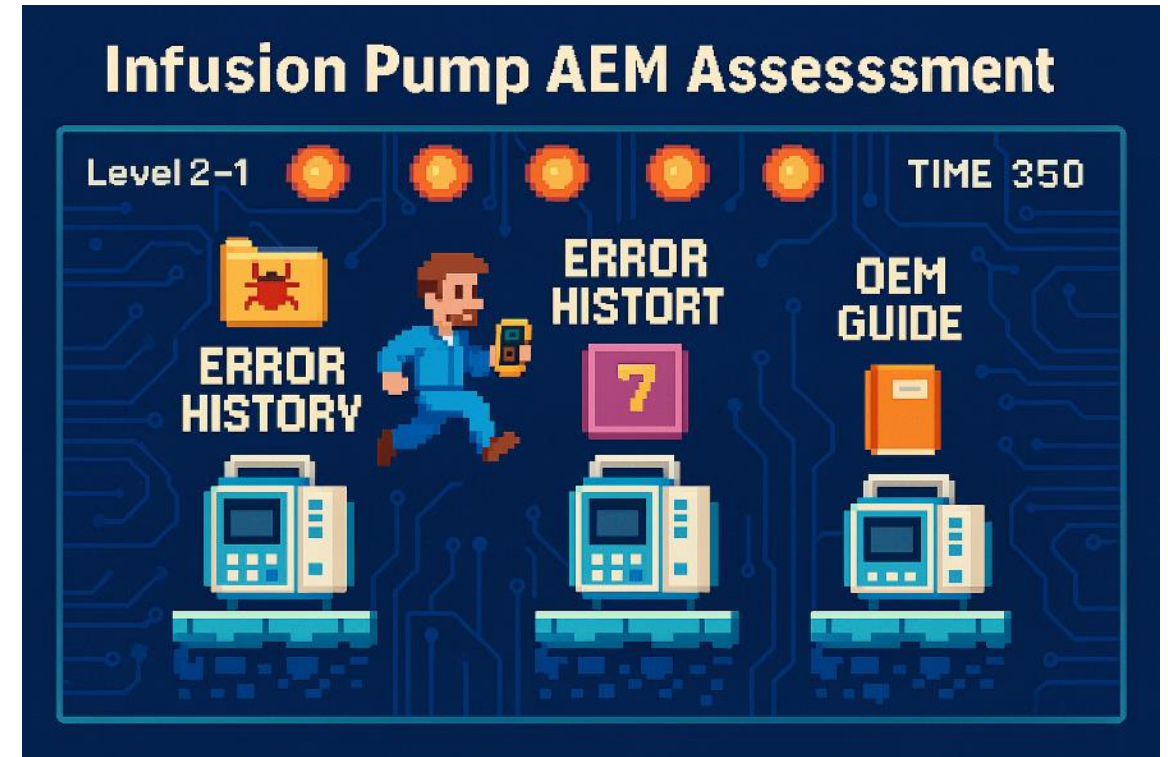
Activity – AEM or Not?



(Scenario 1): Infusion Pump PM Adjustment

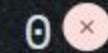
Is this AEM-compliant? Yes / No / Not Sure

Scenario: Your hospital has tracked 3 years of high reliability for a model of infusion pumps. No critical failures have occurred, and the OEM recommends PM annually. Your HTM department proposes moving to biennial PM.



Is this AEM-compliant?

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Yes



No



Not Sure



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(Scenario 1): Infusion Pump Adjustment – Why It Works



Infusion pumps with high reliability and consistent use history can be strong AEM candidates.



Historical data, low clinical risk, and device simplicity support extended intervals.



(Scenario 2): CT Scanner Frequency Change

Is this AEM-compliant? Yes / No / Not Sure



Scenario: A CT scanner, used daily for emergency cases, has had several unplanned downtimes over the past year. The HTM department proposes planning PM's more frequently to increase uptime.

Is this AEM-compliant?

Scenario: Your hospital has tracked 3 years of high reliability for a model of infusion pumps. No critical failures have occurred, and the OEM recommends PM annually. Your HTM department proposes moving to biennial PM.

0 x

Yes

0 x

No

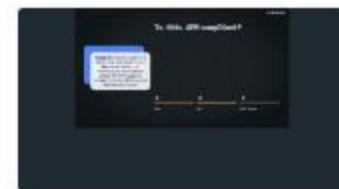
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Not Sure

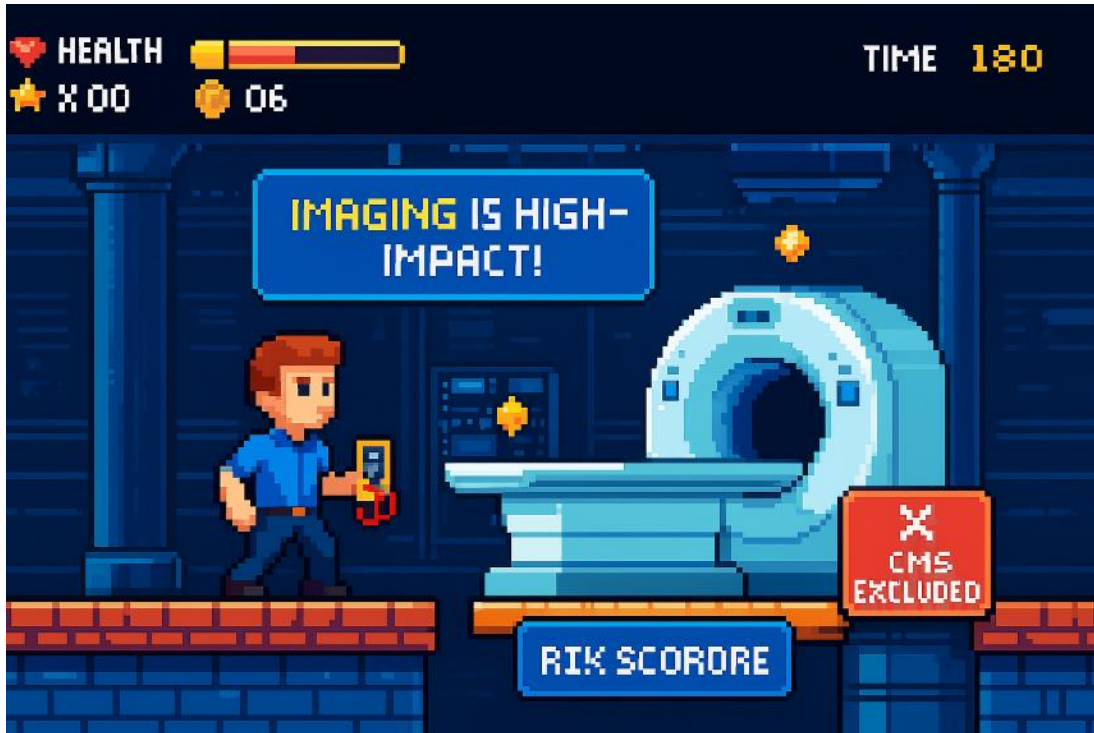
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(Scenario 2): CT Scanner – Why It Fails the AEM Test



CT scanners are not inherently high-risk but are often high-impact if unavailable.

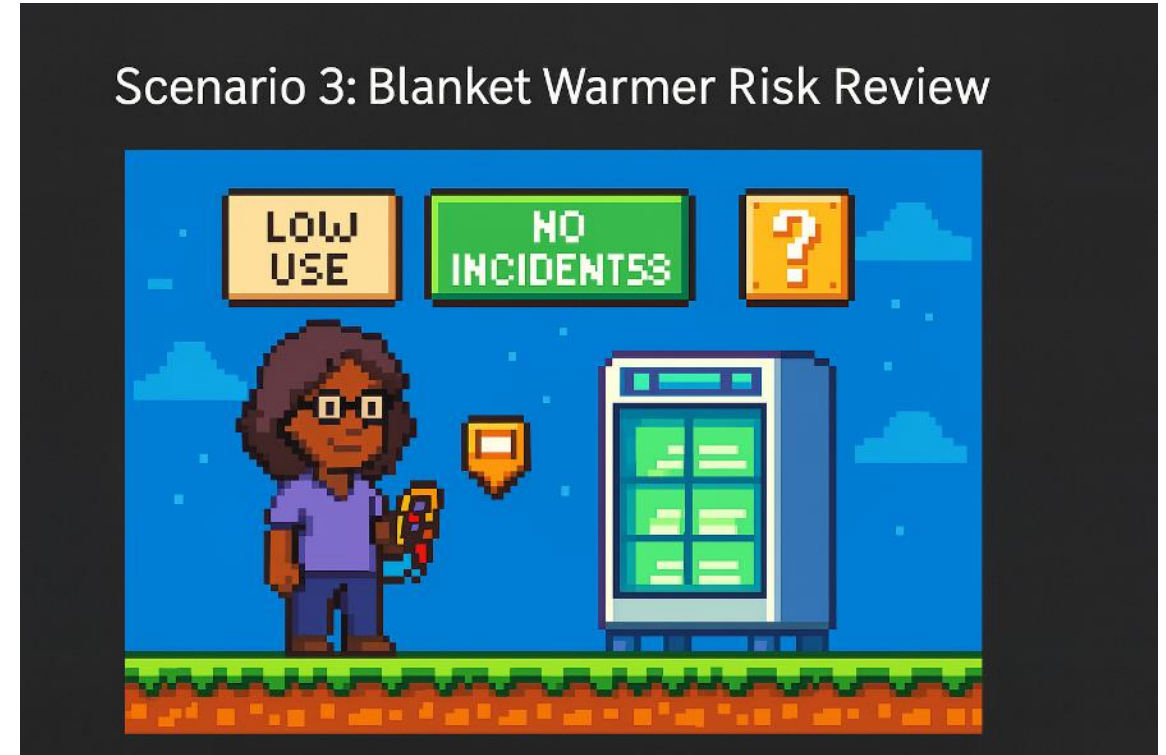


Imaging equipment is excluded from AEM eligibility under CMS guidance (S&C 14-07, S&C 14-41).

(Scenario 3): Blanket Warmer Risk Review

Is this AEM-compliant? Yes / No / Not Sure

Scenario: A blanket warmer is rarely used, and performance data shows no failures. Manufacturer recommends annual PM. HTM suggests moving it into the AEM program with biennial checks.



Is this AEM-compliant?

Scenario: A blanket warmer is rarely used, and performance data shows no failures. Manufacturer recommends annual PM. HTM suggests moving it into the AEM program with biennial checks.



Yes



No



Not Sure



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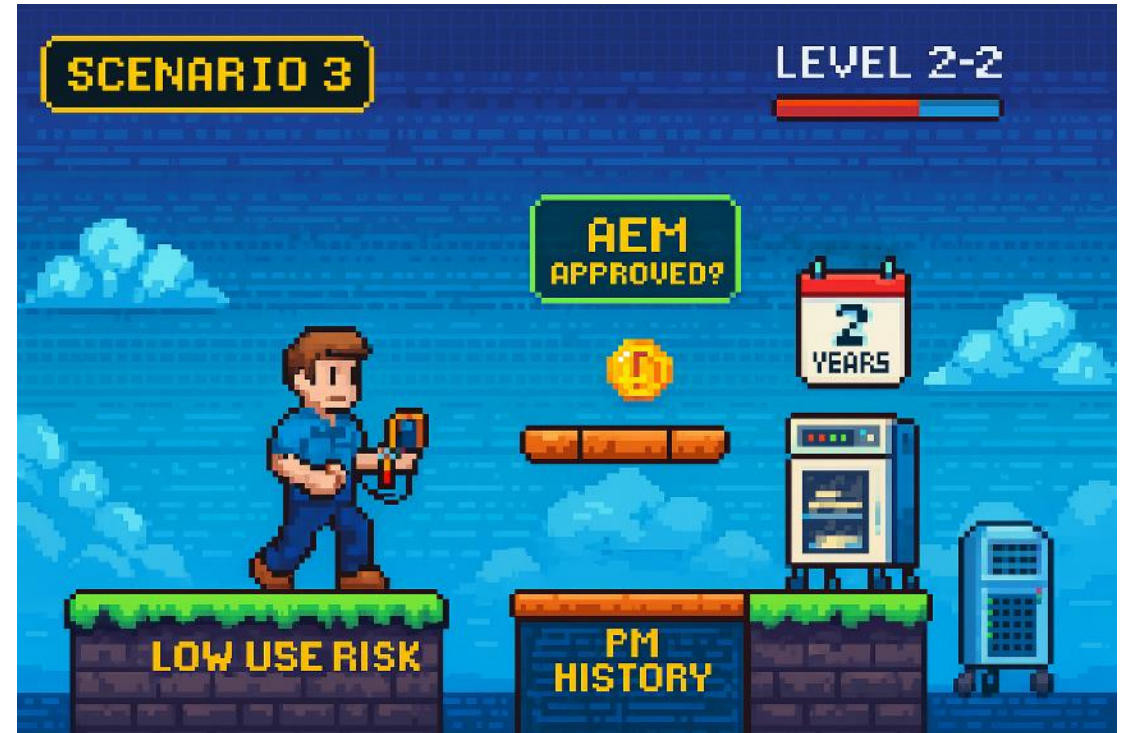
(Scenario 3): Blanket Warmer – Why It’s AEM-Appropriate



Low use-risk and simple function devices are ideal AEM candidates.



Performance history supports longer intervals if documented.



Choose Your Path – Risk Assessment



Use-risk × Maintenance-risk



Consider historical performance and compliance impact



Power Up – Implementing AEM



Engage stakeholders



Document in CMMS



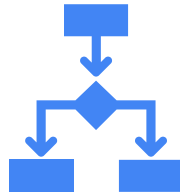
Define tasks and frequency



Activity – Build an AEM



Small group
collaboration exercise



Present your AEM
logic and decision-
making approach

AEM PILOT LEVEL UNLOCKED



- Start small and select the pilot device(s)
- Establish clear objectives and success criteria
- Document all activities and outcomes

Continuous Improvement = Extra Lives



MONITOR ADVERSE
OUTCOMES
CONTINUOUSLY



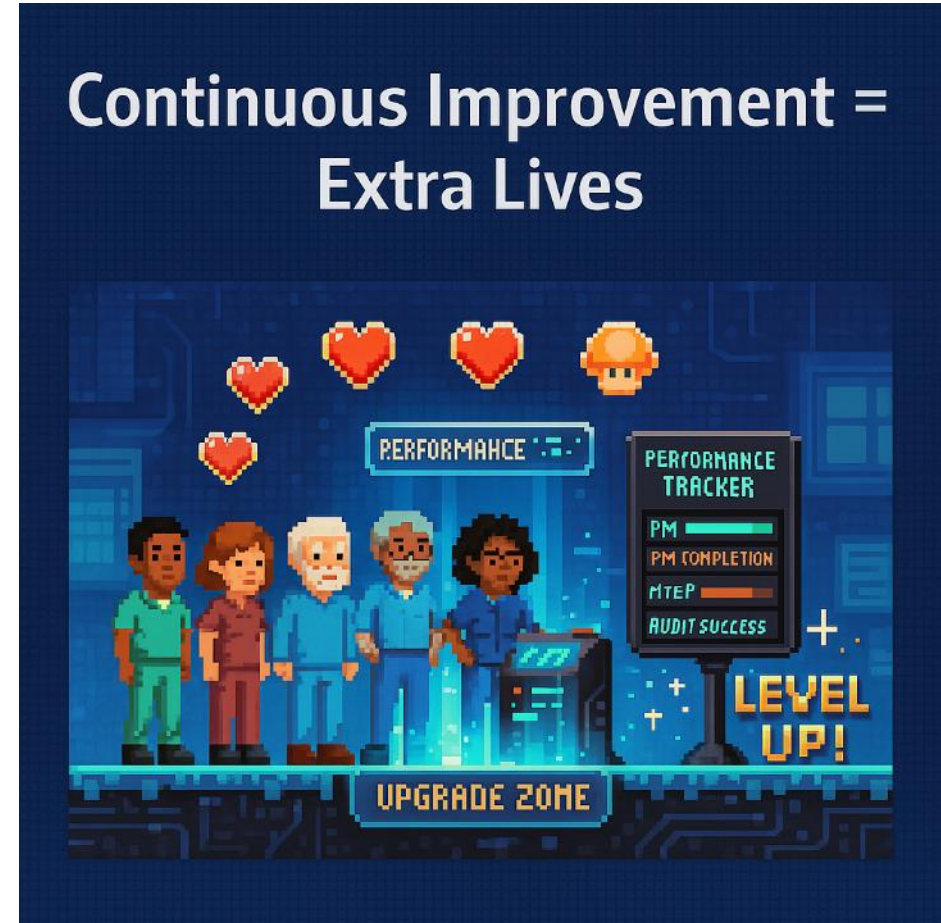
MEASURE KPIS
FREQUENTLY



AUDIT RESULTS
ANNUALLY



ADAPT STRATEGIES
BASED ON DATA



Bonus Round – Career XP



AEM =
Credibility and
leadership



Become a
trusted
resource

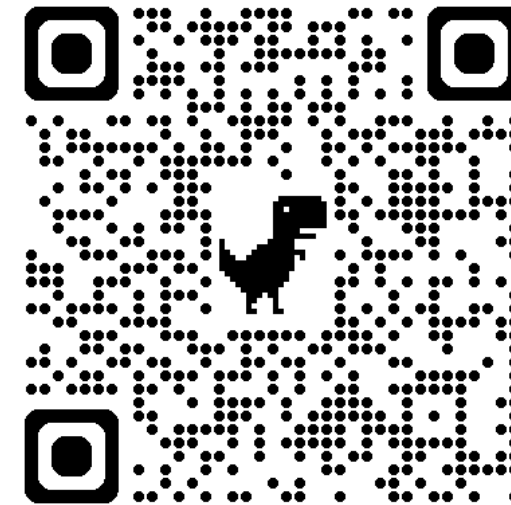


Advance
through
standards
engagement

ANSI/AAMI EQ103:2024, Ed. 1, *Alternate equipment management (AEM) program in healthcare delivery organizations (HDOs)*



Access this document and other HTM-specific resources from AAMI by scanning this QR code:



Find all resources at the AAMI Store:

<https://store.aami.org/s/store>

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AAMI Needs Your Support, Expertise, and... Time

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Participation information and application:



Subscribe and stay up-to-date with all AAMI Standards activity, including public review periods, via Standards Monitor Online:



Contact Mike Miskell at mmiskell@aami.org for assistance

Outreach for Consensus Body Members

AAMI is seeking participation from industry, user, general interest, regulatory, and other interest categories for:

- AAMI EQ-WG01, HTM Program Management WG
 - in the revision of
 - ❖ AAMI EQ89:2015/(R)2023, *Guidance for the use of medical equipment maintenance strategies and procedures*
 - & in the development of the new
 - ❖ AAMI TIR128:202X, *Guidance on implementation and use of AAMI EQ56*
- AAMI EQ-WG02, Servicing Vocabulary WG
 - in the revision of
 - ❖ AAMI EQ93:2019/(R)2025, *Medical equipment management—Vocabulary used in medical equipment programs*
- AAMI EQ-WG03, Technology Acquisition WG
 - in the development of the new
 - ❖ AAMI EQ94:202X, *Healthcare technology acquisition*
- AAMI EQ-WG04, Alternate Equipment Management WG
 - in the development of the new
 - ❖ AAMI TIR129:202X, *Guidance on implementation and use of AAMI EQ103*

*Underrepresented consensus body categories

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What's Next? Your AEM Game Plan

3

Identify 3 target devices



Draft a basic risk scorecard



Begin a documentation audit



Final Challenge – HTM Legend Wall



Write down your
AEM commitment



Let's Book Time

Optional: Discuss it
with us at ECRI



Q&A

Review your AEM program or HTM operations.

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Connect



Let's Book Time