The Healthcare Environment

Medical Equipment Management

George Mills, Senior Engineer
Standard Interpretation Group
The Joint Commission
Scoring Summary

- Three point scale
  - 2 is fully compliant
  - 1 is partially compliant
  - 0 is not compliant at all

- Two Scoring Categories
  - A is pass / fail
  - C is based on observations
    - 10 observations
      - $\geq 90\% = 2$ (compliant)
      - $80\% = 1$ (partial)
      - $\leq 70 = 0$ (noncompliant)
SII Medical Equipment (EC.02.04.03)

EP 2 The hospital inspects, tests, and \textit{maintains all life support equipment}. These activities are documented. \textbf{A, 3, D}

EP 3 The hospital inspects, tests, and \textit{maintains non-life support equipment} identified in the medical equipment inventory. These activities are documented \textbf{C, D}

\textcopyright\ The Joint Commission
Scoring Summary

- Three point scale
  2 is fully compliant
  1 is partially compliant
  0 is not compliant at all

- Two Scoring Categories
  A is pass / fail
  C is based on observations

- Criticality Based
  1. Immediate Threat to Life
  2. Adverse Decision
  3. Direct Impact
  4. Indirect Impact
Human Factor

Trust
Report
Improve

Communication
Lessons Learned from 2009

- Scope issues
  - Contamination issues
- Alarm Hazards
  - Disabled or otherwise compromised
    - Telemetry
    - Infusion pumps
- Surgical Site Fires
  - Sentinel Event Alert
- MRI Safety
  - Magnetic field risk
4 The *hospital* conducts performance testing of and maintains all sterilizers. These activities are documented.  

5 The *hospital* performs equipment maintenance and chemical and biological testing of water used in hemodialysis. These activities are documented.
**Time Defined**

For the Healthcare Environment the Joint Commission has defined time in the **Introduction** of the EC chapter:

- **Daily**, weekly, monthly and quarterly are calendar references.
- **Semi-annual** is 6 months from last occurrence +/- 20 days.
- **Annual** is 12 months from last occurrence +/- 30 days.
Defibrillators: FAQ

Q. Are defibrillators considered life support equipment?

A. YES.

- Maintenance activities then must be identified for equipment on the inventory.
- A maintenance strategy for defibrillators could include a range of activities from a visual inspection of the single-use AED (automatic external defibrillator) to the daily testing of a defibrillator in clinical use settings based on organization policy.

Note: the daily and weekly observations are assessed as per policy.
2010 Emergency Management Survey Process Update

- A methodology change from response to mitigation and preparedness.
- Emergency Management will now have its own 90 minute session.

Mitigation
Preparedness
Response
Recovery
Pre-Session documents

Emergency Operations Plan
- All hazards approach
- Addresses the six critical areas
- Inventory of resources and assets

Hazard Vulnerability Analysis (HVA)
- Mitigation and preparedness activities for the top 2 or 3 events

Disaster drill and real event evaluations
- Monitors and evaluates the six critical areas
Overview of the 2010 EM Changes

- Stand alone EM session
  - Up to 90 minutes
- Focus on mitigation and preparedness
- No disaster scenarios; use hospital disaster critiques
- Focused discussion on six critical areas
  - Communication
  - Safety & Security
  - Utilities
  - Resource & Assets
  - Staff Response
  - Patient Care
- Look at resources and assets inventory; appropriate storage, expirations, training
Survey Process

- Review Medical Equipment Management Plan (MEMP)
- Evaluate based on MEMP
  - New equipment acquisitions
  - New equipment inspections
  - Evaluate life support devices
  - Evaluate non-life support devices
- Evaluation with users as well as maintainers
  - Users: satisfaction
  - Maintainers: Maintenance strategies
SII Medical Equipment (EC.02.04.01)

3 The hospital identifies the activities for maintaining, inspecting and testing for all medical equipment on the inventory.

Note: hospitals may use different strategies for different items as appropriate. For example, strategies such as predictive maintenance, reliability-centered maintenance, interval-based inspections, corrective maintenance, or metered maintenance may be selected to ensure reliable performance.
SII Medical Equipment (EC.02.04.01)

4 The hospital identifies frequencies for inspecting, testing, and maintaining medical equipment on the inventory based on criteria such as manufacturers’ recommendations, risk levels, or current hospital experience. (See also EC.02.04.03 EP 2 & 3)
The Joint Commission Disclaimer

- These slides are current as of 1/30/2010. The Joint Commission reserves the right to change the content of the information, as appropriate.

- These slides are only meant to be cue points, which were expounded upon verbally by the original presenter and are not meant to be comprehensive statements of standards interpretation or represent all the content of the presentation. Thus, care should be exercised in interpreting Joint Commission requirements based solely on the content of these slides.

- These slides are copyrighted and may not be further used, shared or distributed without permission of the original presenter or The Joint Commission.
QUESTIONS?
SIG SUPPORT: 630 792 5900

George Mills, MBA, CEM, CHFM, CHSP
Senior Engineer SIG

Jerry Gervais, CHFM
Engineer SIG

Michael Chisholm, CHFM
Engineer SIG

Open Position
Engineer SIG