



# **Healthcare Facilities**

Presented by  
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## Health Care Facilities – 2014 National Electrical Code Requirements

Credit Hours: 4 Hours

7:30

- I. Select Definitions of 517.2
- II. Groundings of Receptacles and Fixed Equipment
  - A. Wiring Methods per 517.13(A)
  - B. Insulated Equipment Grounding Conductor per 517.13(B)
    - a. Exceptions
- III. Panelboard Bonding per 517.14
- IV. Isolation Ground Receptacles per 517.16\_2014 code change
- V. Ground Fault Protection
  - A. Feeders per 517.17(B)
  - B. Ground Fault Selectivity per 517.17(C)
  - C. Testing Requirements
- VI. Patient Care Areas
  - A. General Care Areas
    - 1. Patient bed Circuit requirements per 517.18(A)
      - a. Marking requirements **\_2014 code change**
    - 2. Patient bed receptacles requirements per 517.18 (B)
    - 3. Pediatric locations per 517.18(C)
  - B. Critical Care Areas
    - 1. Patient bed circuit requirements per 517.19(A)
    - 2. Patient bed receptacle requirements per 517.19(B)
    - 3. Operating rooms per 517.19 (C) **\_2014 code change**
    - 4. Equipment Grounding and bonding per 517.19(F)

9:30 – 9:40

- VII. Permitted Use of GFCI for Personnel per 517.21
- VIII. Essential Electrical Systems (EES)
  - A. General Requirements
    - 1. EES Branches per 517.30(B)1
    - 2. EES Transfer switch sizing and numbers per 517.30(B)2
    - 3. EES Permitted optional loads per 517.30(B)3

- B. Wiring Requirements
  - 1. Required separation of EES circuits per 517.30(C)1
  - 2. Required mechanical protection of EES circuits per 517.30(2)
- C. EES Receptacle Identification per 517.30(E)
- D. EES Feeders from Alternative Source per 517.30(F) **2014 code change**
- E. Coordination of EES OCP Devices per 517.30(G) **2014 code change**
- F. EES Branches
  - 1. Automatic Connection Requirements per 517.31
  - 2. Life Safety Branch per 517.32(A-H)
  - 3. Critical Branch per 517.33(A)
  - 4. Equipment Branch per 517.34(A-C)
- G. EES Source of Power
  - 1. Number required per 517.35(A)
  - 2. Types permitted per 517.35(B)
  - 3. Location of EES components per 517.35(C)

11:40

**All classes taught will be based upon NFPA 70, 2014 National Electrical Code. Reference material to be supplied by attending students.**