NFPA 70 E

Training and Update

2021 Standard for Electrical Safety in the Workplace

1. Introduction
   1. Covering basics of NFPA 70E
   2. Covering Interstates Policies and Methods
   3. Who is a Qualified Person?
2. Article 100 Definitions
   1. Review basic definitions
   2. Review Definitions that have been updated.
      1. Barrier
      2. Balaclava
      3. Electrical Safe Work Condition
      4. Switchgear, Arc Resistant
      5. Shock Hazard
      6. Voltage, Nominal
3. Article 105 Applications of Safety Related Work Practices
   1. Responsibility
      1. Employer
      2. Employee
4. Article 110 General Requirements for Electrical Safety
   1. Renumbering of some sections of the Article
   2. 110.1 Priority
   3. 110.2 General
   4. 110.3 Electrically Safe Working Condition
   5. 110.4 (A)&(B) Energized work When Permitted
   6. 110.5 Electrical Safety Program
   7. 110.5(H)(2) Human Error
   8. 110.5(H)(3) Hierarchy
   9. 110.5(I) Job Safety Planning and Job Briefing
   10. 110.5 (K) Electrically Safe Work Condition Policy
   11. 110.6(A)(3) Additional Training and Retraining.
   12. 110.6(A)(4) Types of Training.
   13. 110.6 (B) Lockout/Tagout Procedure Training
   14. 110.7 (C) Documentation
   15. 110.8 (A) Testing
   16. Testing Performance.
   17. 110.12 Equipment use.
5. Article 120 Establishing an Electrically Safe Work Conditions.
   1. (Lockout Tagout)
   2. 120.2 (A) Employee Involvement
   3. 120.2 (B) Lockout/Tagout Procedure
   4. 120.3 (C) Lockout Devices
   5. 120.4 Lockout/Tagout Procedures
   6. 120.4 (A) (4) Simple Lockout/Tagout Procedures
   7. 120.4 (A) (5) Complex Lockout/Tagout Procedures
   8. 120.5 (B)(2) Stored Energy (Capacitors Article 360 and annex R)
   9. Review Interstates Lockout/Tagout Program.
   10. Preform Lockout/Tagout Task
6. Article 130 Work Involving Electrical Hazards
   1. 130.2 (A) Energized Work Permit
   2. 130.2(B) Elements of a Work Permit.
   3. 130.4 Estimate of Likelihood and Severity
   4. 130.5 (C) Table Likelihood of Occurrence for Arc Flash
   5. 130.5 (G) Table Arc Rated Clothing
   6. 130.7 (C)(7)(a) Table Rubber insulating Gloves
   7. 130.7 (C)(14) table Standards of PPE
   8. Review Interstates Energy Work Permit.
   9. Review Arc Flash Warning Labels
   10. Review Interstates Flash Matrix
   11. 130.7(C) )15) (a) Table Arc Flash PPE Categories.
   12. 130.7(C)(15)(c) Table Personal Protective Equipment
7. Chapter 2 Articles 200-250 Safety-Related Maintenance Requirements.
   1. These articles cover standard everyday working equipment.
   2. This chapter is more on the maintenance side of electrical work.
8. Chapter 3 Articles 300 – 360 Safety-Related Requirements for Special Equipment.
   1. These articles cover safety items of electrical equipment that we do not work on every day.