

2024 NFPA 70E Review Outline

This course will cover Article 105.1 through 320.1 in the 2024 NFPA 70e in a very detailed methodical fashion to give the trade's person a complete overview of the listed article. The outline below will illustrate the systematic approach taken in determining the 100-question course.

Chapter 1

- 105.1 Scope.
- 105.2 Purpose.
- Informational Note:
- 105.3 Responsibility.
 - (A) Employer Responsibility.
 - (B) Employee Responsibility.
- 105.5 Organization.
- 110.1 Scope.
- 110.2 Electrically Safe Work Condition.
 - Informational Note 1:
 - Informational Note 2:
 - 110.2 (B) When Required.
 - Informational Note:
 - Exception No. 3:
 - Exception No. 4:
 - Informational Note:
 - Exception No. 5:
 - (E) Electrical Safety Program Principles.
 - Informational Note:
 - (H) Risk Assessment Procedure.
 - 110.3 Electrical Safety Program.
 - (A) General.
 - Informational Note No. 1:
 - Informational Note No. 2:
 - Informational Note No. 3:
 - Informational Note No. 4:

- (B) Inspection.
- (D) Awareness and Self-Discipline.
- (E) Electrical Safety Program Principles.

Informational Note:

- (1) Elements of a Risk Assessment Procedure.

Informational Note No. 1:

Informational Note No. 2:

- (2) Human Error.

Informational Note:

- (3) Hierarchy of Risk Control Methods.

Informational Note No. 1:

Informational Note No. 2:

- (I) Job Safety Planning and Job Briefing.

- (1) Job Safety Planning.

- (2) Job Briefing.

- (3) Change in Scope.

- (J) Incident Investigations.

Informational Note:

- (K) Lockout/Tagout Program.

- (L) Auditing.

- (1) Electrical Safety Program Audit.

- (2) Field Work Audit.

- (3) Lockout/Tagout Program and Procedure Audit.

- (4) Documentation.

110.6 Training Requirements.

- (A) Electrical Safety Training.

Informational Note:

- (1) Qualified Person.

- (2) Unqualified Persons.

- (3) Additional Training and Retraining.

- (4) Type of Training.

Informational Note:

- (5) Electrical Safety Training Documentation.

Informational Note No. 1:

Informational Note No. 2:

- (B) Lockout/Tagout Procedure Training.

- (1) Initial Training.

- (2) Retraining.

- (3) Lockout/Tagout Training Documentation.

(C) Emergency Response Training.

(1) Contact Release.

(2) First Aid, Emergency Response, and Resuscitation.

Informational Note:

(3) Training Verification.

(4) Documentation.

110.6 Test Instruments and Equipment.

(A) Testing.

(B) Rating.

Informational Note:

(C) Design.

(D) Visual Inspection and Repair.

110.7 Portable Cord- and-Plug-Connected Electric Equipment.

(A) Handling and Storage.

(B) Grounding-Type Equipment.

(D) Conductive or Wet Work Locations.

Informational Note:

(E) Connecting Attachment Plugs.

(F) Manufacturer's Instructions.

110.8 Ground-Fault Circuit-Interrupter (GFCI) Protection.

(A) General.

(B) Maintenance and Construction.

Informational Note:

(C) Outdoors.

Informational Note:

(D) Testing Ground-Fault Circuit-Interrupter Protection Devices.

110.9 Overcurrent Protection Modification.

Informational Note:

(140 Mins)

Chapter 2

200.1 Scope.

Informational Note:

Article 205 General Maintenance Requirements

205.2 Qualified Persons.

205.3 Single-Line Diagram.

205.5 Overcurrent Protective Devices.

205.6 Spaces About Electrical Equipment.

Informational Note:

205.7 Grounding and Bonding.

205.8 Guarding of Energized Conductors and Circuit Parts.

205.10 Clear Spaces.

205.12 Warning Signs.

205.14 Single and Multiple Conductors and Cables.

205.15 Flexible Cords and Cables.

(1) Damaged Cords and Cables.

(2) Strain Relief.

(3) Repair and Replacement.

210.3 Area Enclosures.

210.4 Conductors.

210.5 Insulation Integrity.

215.3 Open Wiring Protection.

Article 225 Fuses and Circuit Breakers

225.2 Fuses.

230.3 Guards, Barriers, and Access Plates.

Article 235 Hazardous (Classified) Locations

235.1 Scope.

Informational Note No. 1:

Informational Note No. 2:

235.2 Maintenance Requirements for Hazardous (Classified) Locations.

Article 240 Batteries and Battery Rooms

240.2 Ventilation.

Informational Note:

240.3 Eye and Body Wash Apparatus.

Article 245 Portable Electric Tools and Equipment

245.2 Maintenance Requirements for Portable Electric Tools and Equipment.

Article 250 Personal Safety and Protective Equipment

250.2 Maintenance Requirements for Personal Safety and Protective Equipment.

250.3 Inspection and Testing of Protective Equipment and Protective Tools.

(A) Visual.

(B) Testing.

250.4 Safety Grounding Equipment.

(A) Inspection.

250.5 Test Instruments.

(70 Mins)

Chapter 3

Article 300 Introduction

300.1 Scope.

Article 310 Safety-Related Work Practices for Electrolytic Cells

310.1 Scope.

Informational Note No. 1:

Informational Note No. 2:

Informational Note No. 3:

310(C) Arc Flask Risk Assessment.

310.5(C)(1) General. Safeguarding of Employees in the Cell Line Working Zone.

310.5(D)(3) Barriers.

310.5 (D)(4) Voltage equalization.

310.5 (D)(5) Isolation.

310.5 (D)(9) Cranes and Hoists.

320.1 Scope.

(30 Mins)

(TOTAL 240 Minutes)