

**Course Name:** 2021 NFPA 70E Chapters 1, 2, and 3

**Credit Hours:** 4 Hours

**Course Description:** This 4 hour course will cover Article 105.1 through 310.5, in the 2021 NFPA 70E in a vary 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.

**Course Objectives:** At the conclusion of this course, licensees will be able to:

1. Recognize and identify the importance of the NFPA 70E Chapters 1, 2 and 3.
2. Apply the NFPA 70E Chapters 1, 2 and 3 in their daily electrical practice.

**Method of Presentation:** This course is available online. Each slide include commentary and a multiple choice question. The student will be required to set up a unique username and password upon registration, and will also be asked to enter their state license number.

**Method of Evaluation:** The licensee must complete all 100 multiple choice questions with a score of 75% or better in order to receive credit for the course.

**Course outline: 240 minutes total**

**Chapter 1 – 140 minutes**

Part 1- 12 minutes

105.1 Scope.

105.2 Purpose.

Informational Note

105.3 Responsibility.

(A) Employer Responsibility.

(B) Employee Responsibility.

105.5 Organization.

Part 2 - 20 minutes

110.1 Priority.

Informational Note No. 1:

Informational Note No. 2:

110.2 General.

Informational Note

110.3 Electrically Safe Work Condition.

110.4 Energized Work.

(A) Additional Hazards or Increased Risk.

Informational Note

(B) Infeasibility.

Informational Note

(C) Equipment Operating at Less Than 50 Volts.

(D) Normal Operating Condition.

Informational Note

Part 3 – 20 minutes

110.5 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

Part 4 – 20 minutes

(I) Job Safety Planning and Job Briefing.

(2) Job Briefing.

(3) Change in Scope.

(J) Incident Investigations.

Informational Note:

(K) Electrically Safe Work Condition Policy.

(L) Lockout/Tagout Program.

(M) Auditing.

(1) Electrical Safety Program Audit.

(2) Field Work Audit.

(3) Lockout/Tagout Program and Procedure Audit.

(4) Documentation.

Part 5 – 8 minutes

110.6 Training Requirements.

(A) Electrical Safety Training.

Informational Note:

(1) Qualified Person.

(2) Unqualified Persons.

(3) Additional Training and Retraining.

Part 6 – 20 minutes

(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:

Part 7 – 20 minutes

(3) Training Verification.

(4) Documentation.

110.8 Test Instruments and Equipment.

(A) Testing.

(B) Rating.

Informational Note:

(C) Design.

(D) Visual Inspection and Repair.

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

(A) Handling and Storage.

(B) Grounding-Type Equipment.

(D) Conductive or Wet Work Locations.

Informational Note:

Part 8 – 20 minutes

(E) Connecting Attachment Plugs.

(F) Manufacturer's Instructions.

110.10 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.

110.11 Overcurrent Protection Modification.

Informational Note**:**

**Chapter 2 – 70 minutes**

Part 1 – 20 Minutes

200.1 Scope.

Informational Note:

Article 205 General Maintenance Requirements

205.1 Qualified Persons.

205.2 Single-Line Diagram.

205.4 Overcurrent Protective Devices.

205.5 Spaces About Electrical Equipment.

Informational Note:

205.6 Grounding and Bonding.

205.7 Guarding of Energized Conductors and Circuit Parts.

205.9 Clear Spaces.

Part 2 – 30 minutes

205.11 Warning Signs.

205.13 Single and Multiple Conductors and Cables.

205.14 Flexible Cords and Cables.

(1) Damaged Cords and Cables.

(2) Strain Relief.

(3) Repair and Replacement.

210.2 Area Enclosures.

210.3 Conductors.

210.4 Insulation Integrity.

215.2 Open Wiring Protection.

Article 225 Fuses and Circuit Breakers

225.1 Fuses.

230.2 Guards, Barriers, and Access Plates.

Article 235 Hazardous (Classified) Locations

235.1 Scope.

Informational Note No. 1:

Informational Note No. 2:

Part 3 – 20 minutes

 235.2 Maintenance Requirements for Hazardous (Classified) Locations.

Article 240 Batteries and Battery Rooms

240.1 Ventilation.

Informational Note:

240.2 Eye and Body Wash Apparatus.

Article 245 Portable Electric Tools and Equipment

245.1 Maintenance Requirements for Portable Electric Tools and Equipment.

Article 250 Personal Safety and Protective Equipment

250.1 Maintenance Requirements for Personal Safety and Protective Equipment.

250.2 Inspection and Testing of Protective Equipment and Protective Tools.

(A) Visual.

(B) Testing.

250.3 Safety Grounding Equipment.

(A) Inspection.

250.4 Test Instruments.

**Chapter 3 – 30 minutes**

Part 1 – 30 minutes

Article 300 Introduction

300.1 Scope.

Introduction300.3 Organization.

Article 310 Safety-Related Work Practices for Electrolytic Cells

310.1 Scope.

310.2 Definitions.

Battery Effect.

Informational Note:

Safeguarding.

310.5 Safeguarding of Employees in the Cell Line Working Zone.

(A)(1)  General.