



Code and Safety Update

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electrical training ALLIANCE
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ISO/IEC 17024
Personnel Certification Program
#1211





“NJATC FR” has a New Partner

- The etA has now partnered with Tyndale to provide even more offerings to IBEW members and NECA contractors
- This allows Tyndale to offer both Union and American made arc-rated garments, among other benefits.




NFPA 70E and the DOE





U.S. DEPARTMENT OF
ENERGY


- 70E is mandatory on Department of Energy sites
- **The DOE has approved the etA's 70E-based curriculum for reciprocity**
- **Our 70E training will be portable** between DOE sites
- Our training is also recognized as approved training by the DOE




Blended Learning and the Learning Management System (LMS)

 **Electrical Safety-Related Work Practices, Level I, Based on the 2018 70E**
Last Accessed: 07/16/2018
Electrical Safety-Related Work Practices, Level I is designed to walk the learner through the basics of Electrical Safety-Related Work Practices. Utilizing a series of questions based on the learning objectives of each lesson, the course is intended to help the learner better understand electrical safety culture, electrical hazards, lockout and tagout, fault current calculation basics, and the definition of an electrically safe work condition.

 **Electrical Safety-Related Work Practices, Level II, Based on the 2018 70E**
Last Accessed: 07/16/2018
Electrical Safety-Related Work Practices, Level II is designed to walk the learner through a number of the requirements related to work involving electrical hazards such as when energized work is justified, what is required when justified energized electrical work is permitted, and the requirements for the selection and use of personal and other protective equipment as well as the basics of identifying overcurrent protective devices and application of related requirements and informational notes.



Blended Learning and the Learning Management System (LMS)

 **Welcome to Electrical Safety-Related Work Practices, Level I, Based on the 2018 70E Online Materials**
Electrical Safety-Related Work Practices, Level I is designed to walk the learner through the basics of Electrical Safety-Related Work Practices. Utilizing a series of questions based on the learning objectives of each lesson, the course is intended to help the learner better understand electrical safety culture, electrical hazards, lockout and tagout, fault current calculation basics, and the definition of an electrically safe work condition.

Course Syllabus

Lesson 1: Electrical Safety Culture	Open
Lesson 2: Electrical Hazard Awareness	Open
Lesson 3: OSHA Considerations	Open
Lesson 4: Introduction to Lockout, Tagging, and the Control of Hazardous Energy	Open
Lesson 5: Fault Current Fundamentals	Open

The screenshot shows the top portion of an LMS course page. At the top left is the 'electrical training' logo with 'NPPA ALLIANCE' below it. The main title is 'Blended Learning and the Learning Management System (LMS)'. Below the title, there is a breadcrumb trail: 'Electrical Safety-Related Work Practices, Level II, Based on the 2018 70E'. A blue 'Resources' button is circled in red. Below this is a 'Welcome to Electrical Safety-Related Work Practices, Level II, Based on the 2018 70E Online Materials' section with a small icon and a paragraph of text. A red bar labeled 'Course Syllabus' is followed by a list of lessons, each with an 'Open' button. The third lesson, 'Lesson 3: Identifying OCPD Types', is circled in red.

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Blended Learning and the Learning Management System (LMS)

Electrical Safety-Related Work Practices, Level II, Based on the 2018 70E [Resources](#)

Welcome to Electrical Safety-Related Work Practices, Level II, Based on the 2018 70E Online Materials

Electrical Safety-Related Work Practices, Level II is designed to walk the learner through a number of the requirements related to work involving electrical hazards such as when energized work is justified, what is required when justified energized electrical work is permitted, and the requirements for the selection and use of personal and other protective equipment as well as the basics of identifying overcurrent protective devices and application of related requirements and informational notes.

Course Syllabus

- Lesson 1: Introduction to NFPA 70E® [Open](#)
- Lesson 2: Justification, Assessment, and Implementation of Energized Work [Open](#)
- Lesson 3: Identifying OCPD Types [Open](#)
- Lesson 4: Methods to Select Arc Flash PPE [Open](#)
- Lesson 5: Maintenance Considerations [Open](#)
- Lesson 6: Eliminating or Reducing Hazards by Design and Upgrades [Open](#)

The screenshot shows the 'RESOURCES' section of the LMS course page. It features a red bar labeled 'RESOURCES' and a sub-section 'Instructor Resources' with a red bar labeled 'CourseWare Study Plan & Enhanced Materials'. Below this is a list of lessons with associated resources. Lesson 3, 'Identifying OCPD Types', is highlighted with a red box around its resource: 'Interactive Animation: Personal Protective Equipment Selector'. Other lessons include references to NFPA 70E-2018 and various interactive elements.

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Blended Learning and the Learning Management System (LMS)

RESOURCES

Electrical Safety-Related Work Practices, Level II, Based on the 2018 70E

Instructor Resources

CourseWare Study Plan & Enhanced Materials

- Lesson 1: Introduction to NFPA 70E®**
 - Reference: NFPA 70E-2018, Standard for Electrical Safety in the Workplace
- Lesson 2: Justification, Assessment, and Implementation of Energized Work**
 - Reference: NFPA 70E-2018, Standard for Electrical Safety in the Workplace
 - Interactive Animation: Personal Protective Equipment Selector
- Lesson 3: Identifying OCPD Types**
 - Reference: NFPA 70E-2018, Standard for Electrical Safety in the Workplace
- Lesson 4: Methods to Select Arc Flash PPE**
 - Reference: NFPA 70E-2018, Standard for Electrical Safety in the Workplace
- Lesson 5: Maintenance Considerations**
 - Reference: NFPA 70E-2018, Standard for Electrical Safety in the Workplace
- Lesson 6: Eliminating or Reducing Hazards by Design and Upgrades**
 - Reference: NFPA 70E-2018, Standard for Electrical Safety in the Workplace

Personal Protective Equipment Selector 12995

North Pavilion-BA22 SWGR HV-ETS3

PNL P22 SWGR HV-B7

PNL L33 LPIC-12

PNL P28 LPIC-42

MCC MECH3 PNL L16

MCC HVAC8 Sub-A-South

Choose a Scenario, and press GO

GO

Instructions Clear Answers

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Personal Protective Equipment Selector 12995

ENERGIZED ELECTRICAL WORK PERMIT

Job/Work Order Number: MCC-North Pavilion-BA22

PART I: TO BE COMPLETED BY THE REQUESTER:

1. Description of circuit/equipment/job location: Replace conductors supplying HVAC equipment in an motor control center (MCC)
2. Description of work to be done: Replace conductors
3. Justification of why the circuit/equipment cannot be de-energized or the work deferred until the next scheduled outage: Additional hazards and increased risk

Requester/Title _____ Date _____

Page 1 of 4

MAIN MENU

REMAINING ATTEMPTS: 4

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WARNING
Arc Flash and Shock Hazard
Appropriate PPE Required
Equipment Label, in accordance with 130.5(D)
MCC-North Pavilion-BA22
Voltage 480/277 V
12 calories at 18 inches
Arc-Flash Boundary: 90 inches

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Personal Protective Equipment Selector 12995

ENERGIZED ELECTRICAL WORK PERMIT

Job Work Order Number MCCNorth Pavilion-B422

See incident energy analysis label:

PART II: TO BE COMPLETED BY THE ELECTRICALLY QUALIFIED PERSONS DOING THE WORK:

1. Detailed job description procedure to be used in performing the above detailed work:
Replace conductors
2. Description of the safe work practices to be employed:
Qualified persons perform arc flash and shock risk assessment and determine task can be performed safely with adequate PPE.
3. Results of the shock risk assessment:
 - a. Voltage to which personnel will be exposed 480,277 V
 - b. Limited approach boundary choose an option
 - c. Restricted approach boundary choose an option
 - d. Necessary shock, personal, and other protective equipment to safely perform assigned task
What is the minimum class of rubber insulating glove required for this task?
choose an option

Select Necessary Shock Protection Equipment

Select PPE

WARNING
Arc Flash and Shock Hazard
Appropriate PPE Required
Equipment Label: In accordance with 130.5(D)
MCC-North Pavilion-B422
Voltage 480/277 V
12 calories at 18 inches
Arc Flash Boundary 90 inches

BACK NEXT

Page 2 of 4

REMAINING ATTEMPTS: 4

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Personal Protective Equipment Selector 12995

Select an Item to add it to the list.
Click "OK" when done

Categories	PPE
Arc-Rated Clothing	
Arc-Rated Head & Face Protection	
Gloves	
Shoes	
Protective Equipment	
Tools	

OK

ENERGIZED ELECTRICAL WORK PERMIT

Job Work Order Number MCC-North Pavilion-B422

See incident energy analysis label:

PART II: TO BE COMPLETED BY THE ELECTRICALLY QUALIFIED PERSONS DOING THE WORK:

1. Detailed job description procedure to be used in performing the above detailed work:
Replace conductors
2. Description of the safe work practices to be employed:
Qualified persons perform arc flash and shock risk assessment and determine task can be performed safely with adequate PPE.
3. Results of the shock risk assessment:
 - a. Voltage to which personnel will be exposed 480,277 V
 - b. Limited approach boundary 36"
 - c. Restricted approach boundary 3'
 - d. Necessary shock, personal, and other protective equipment to safely perform assigned task
What is the minimum class of rubber insulating glove required for this task?
class 00 or 0 500/1000 V

Select Necessary Shock Protection Equipment

Select PPE

- RUBBER INSULATING GLOVES
- LEATHER PROTECTORS

BACK NEXT



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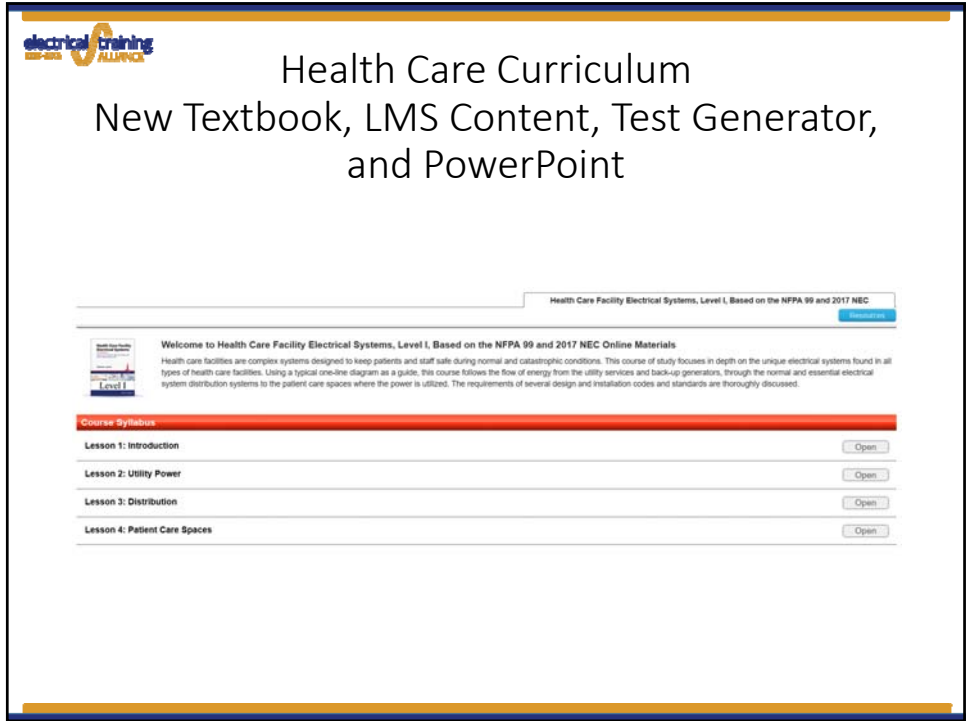
REMAINING ATTEMPTS: 4

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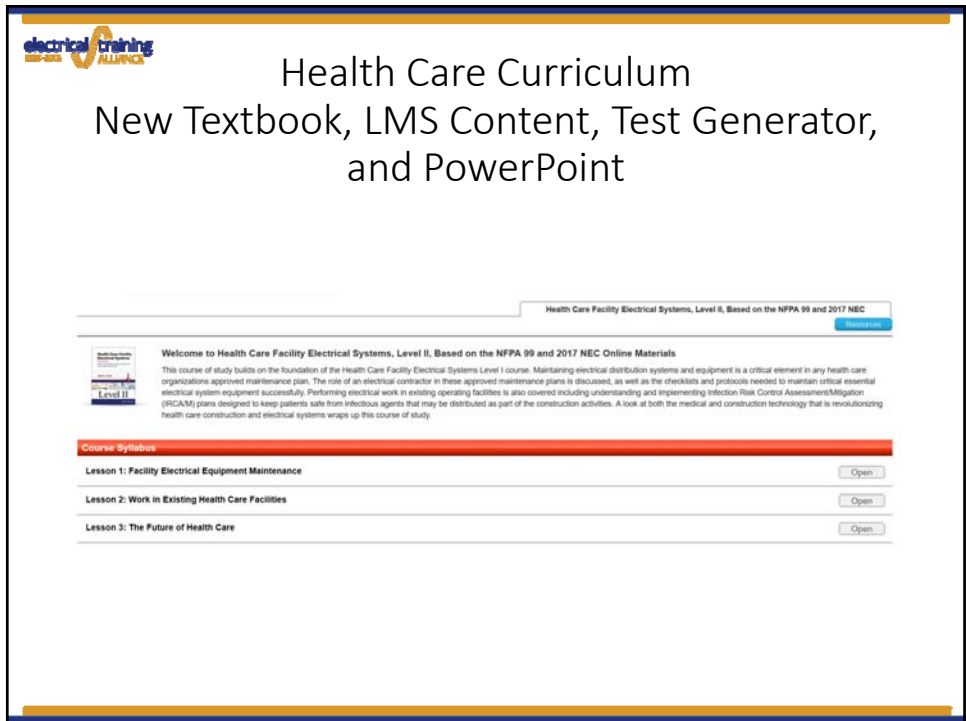
New Textbook and Curriculum based on NFPA 99 (2018) and the 2017 NEC

- A shift in focus and responsibility has occurred
- NFPA 99, Health Care Facilities Code, addresses performance requirements
- The NEC addresses installation requirements
- ICRA now addressed
- ASHE was consulted



The screenshot shows the course page for "Health Care Facility Electrical Systems, Level I, Based on the NFPA 99 and 2017 NEC". The page features the "electrical training ALLIANCE" logo in the top left. The main heading is "Health Care Curriculum New Textbook, LMS Content, Test Generator, and PowerPoint". Below this, there is a navigation bar with "Home" and "Introduction" buttons. The "Introduction" button is highlighted. The main content area includes a "Welcome to Health Care Facility Electrical Systems, Level I, Based on the NFPA 99 and 2017 NEC Online Materials" section, followed by a "Course Syllabus" section with four lessons: "Lesson 1: Introduction", "Lesson 2: Utility Power", "Lesson 3: Distribution", and "Lesson 4: Patient Care Spaces". Each lesson has an "Open" button next to it.



The screenshot shows the course page for "Health Care Facility Electrical Systems, Level II, Based on the NFPA 99 and 2017 NEC". The page features the "electrical training ALLIANCE" logo in the top left. The main heading is "Health Care Curriculum New Textbook, LMS Content, Test Generator, and PowerPoint". Below this, there is a navigation bar with "Home" and "Introduction" buttons. The "Introduction" button is highlighted. The main content area includes a "Welcome to Health Care Facility Electrical Systems, Level II, Based on the NFPA 99 and 2017 NEC Online Materials" section, followed by a "Course Syllabus" section with three lessons: "Lesson 1: Facility Electrical Equipment Maintenance", "Lesson 2: Work in Existing Health Care Facilities", and "Lesson 3: The Future of Health Care". Each lesson has an "Open" button next to it.

The 2020 NEC

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Current & Prior Editions Next Edition Technical Committee Ask a Technical Question News Purchase Products & Training Related Products

Next Edition: 2020
The next edition is now open for comment.
Revision Cycle: Annual 2019 NEC
Submit a Public Comment

First Draft
Public Input Closing Date: September 7, 2017
First Draft Report Posting Date: June 25, 2018
First Draft Report

Second Draft
Public Comment Closing Date: August 30, 2018
Second Draft Report Posting Date: April 5, 2019
Submit Public Comment Online

The 2021 edition of 70E is Underway
Over 1,000 of pages of Public Input

NFPA STANDARDS DEVELOPMENT SITE
COMMITTEE REVIEW STAGE
Committee Review Closing Date: February 27, 2019
NOTE: All Public Input must be received by 5:00 pm EST/EDST on the published Closing Date.
Welcome phickman@electricaltrainingalliance.org!

NFPA 70E®, Standard for Electrical Safety in the Workplace®, 2018 Edition

Table of Contents: NFPA 70E
• Article 90 Introduction
• Chapter 1 Safety-Related Work Practices
• Chapter 2 Safety-Related Maintenance Requirements
• Chapter 3 Safety Requirements for Special Equipment
• Informative Annex A Referenced Publications
• Informative Annex B Reserved
• Informative Annex C Limits of Approach
• Informative Annex D Locked Energy and Arc Flash Boundary Calculation Methods

Introduction
Article 90 Introduction
90.1 Purpose.
The purpose of this standard is to provide a practical safe working area for employees relative to the hazards arising from the use of electricity
90.2 Scope.


Public Input Log:
Public Input No. 373-NFPA 70E-2018
Section No. 90.1
Public Input No. 27-NFPA 70E-2018
Section No. 90.2(A)
Public Input No. 184-NFPA 70E-2018
Section No. 90.2(A)
Public Input No. 374-NFPA 70E-2018

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ISO/IEC 17024
Personnel Certification Program
#1211

Certification Fee Structure






- Scope of Certification – Stationary Control Crane
- Scope of Certification – Rotating Control Crane
- Scope of Certification – Digger Derrick

 **ET&D Partnership**



- Quarterly Refresher Training has replaced a 5 year expiration on the ET&D 10-hour card





Q3 2018

-  [Drivers Safety - Q3 - 2018 - Session 1](#)
PPTX, 436.58 KB
-  [Drivers Safety - Q3 - 2018 - Session 2](#)
PPTX, 2.46 MB
-  [Drivers Safety - Q3 - 2018 - Session 3](#)
PPTX, 5.03 MB
-  [Distracted Driving- Q3 - 2018 - Calls Kill](#)
MP4, 9.22 MB
-  [Facilitator Guide - Q3 - 2018 Safe Driving](#)
PDF, 5.23 MB

Q2 2018

-  [PowerPoint Training - Q2 - 2018 - Work Zone Protection](#)
PPTX, 9.56 MB
-  [Facilitator Guide - Q2 - 2018 - Work Zone Protection](#)
PDF, 5.33 MB

Q1 2018

-  [PowerPoint Training - Q1 - 2018 - Isolate & Insulate](#)
PPTX, 7.08 MB
-  [Presenter Guide - Q1 - 2018 - Isolate & Insulate](#)
PDF, 6.26 MB



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Thank You!

- It's an exciting time for Code and Safety
- Thank you for your continued support!

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