

FALL 2018

# PRODUCTS AND SOLUTIONS



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# KEEPING PACE WITH A WORLD THAT NEVER SLOWS DOWN

One of the challenges that NFPA® and our members share is that, in a world that is constantly changing, we must be constantly evolving. It's why NFPA works relentlessly to help develop and update codes, standards, trainings, and products to help close the safety gaps. And why you work diligently to constantly improve your safety knowledge and apply it to your work. A changing future demands it. Standing still is not a solution. And only together can we hope to prepare ourselves, again and again, to do our jobs at the absolute highest level.

As you will read in these pages, today NFPA is putting forth a conscious effort to remind the world, as we are so focused on our piece of the safety puzzle, to step back and not lose sight of the overall picture—what we call the Fire & Life Safety Ecosystem. This is critical as all of us are learning the best ways to address pressing issues like the growing threat of active shooter situations and other hostile events; broadening awareness of the incredible safety value of in-home fire sprinklers; addressing the risk of energy efficient, yet flammable, building cladding; and learning how to safely store the ever-increasing amount of energy our world consumes. We learn what we need to do by sharing our most up-to-date knowledge with each other—from NFPA's in-progress 2020 edition of the *NEC*®, to conversations among colleagues on NFPA Xchange™, to timely and informative articles authored by industry experts.

And while this idea of perpetual learning may seem daunting, NFPA prefers to look at it another way. It's not simply what we all need to do. It is something we are all driven to do. To work smarter. To keep the world safer. Together, we can. Together, we will.



# INCREASE YOUR KNOWLEDGE

What better resource is there for your training than the people who help develop the codes you work by? Whether you participate online, in a classroom, or arrange an on-site class at your business, NFPA training is based on the latest and most comprehensive understanding of the challenges you face and the best methods for dealing with them. Let us help you be better prepared for the important work you do.

Bring the expertise of NFPA to you. Schedule your next on-site training at your building or facility. Call 877-336-3280 today.



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# CERTIFY YOUR EXCELLENCE

Based on our ongoing research which is designed to address real needs in the marketplace, NFPA certifications deliver serious value that you'll see in your daily work. They also speak volumes to your customers, colleagues, and peers about your commitment to your profession and your readiness to do your job and do it well. So take your career to the next level with certifications from the world's leading resource for fire, electrical, and life safety knowledge.

Find info and schedules  
at [nfpa.org/2018certification](https://nfpa.org/2018certification)





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# STAYING CURRENT: LOOKING AHEAD AT THE 2020 NEC®

Adapted from an *NFPA Journal*® story by Angelo Verzoni

On average, more than one person a day dies in the United States as a result of a fire involving an electrical failure or malfunction. With the 2020 edition of NFPA 70®, *National Electrical Code*® (NEC®) on the horizon and a vision to become the go-to global resource on emerging electrical issues, NFPA is determined to change this narrative in the coming years.

The NEC is used in some way in every state in the U.S. Outside of the U.S., NEC use is growing fast. And for the 2020 edition, a number of proposed changes are in motion to keep the NEC on the cutting edge of electrical safety.

One proposal would update the way the code guides users through requirements for conducting load calculations, which measure the amount of energy a building uses and influence what kind of equipment is necessary for its electrical system. The NEC currently uses tables that are more than 50 years old, which, by many accounts, leads to oversized electrical systems. The change for 2020 would add new revised load calculation tables that account for increasing efforts to make buildings more energy efficient and use modern electrical technologies.

Another issue the 2020 NEC may address is horticultural lighting. As marijuana legalization sweeps the country, grow facilities are becoming an electrical safety concern for many enforcers. There's nothing unique happening electrically, but it's an intense load. The NEC already includes information for dealing with such a large electrical load. Still, there's a desire to have more guidance specific to these types of facilities.

Other emerging issues have already made their way into the NEC as NFPA works to build additional resources for them. Power over Ethernet (PoE), which uses communications cables to supply power in addition to transmitting data, is a good example. The integration of data and power allows buildings to become “smart,” but includes

potential hazards. Since the cables are often bundled, heat dissipation becomes a concern as more power is added to them.

Another emerging issue that has been a focus of NFPA is electric shock drowning (ESD), which occurs when a person enters electrified water in areas like marinas, where boats and docks containing electrical systems can “leak” current into the water. If the current itself doesn't kill the person, it can paralyze them and cause them to drown. The NEC includes provisions and requirements for wiring and electrical equipment at marinas, boatyards, and docking facilities. But the boats themselves are often the problem, experts say. While the NEC doesn't include provisions on requirements for the wiring of boats within its scope, it can add recommendations for testing them. NFPA hopes to launch a national awareness campaign on ESD by this summer.

*The NEC is used in some way in every state in the U.S. Outside of the U.S., NEC use is growing fast.*

On top of emerging challenges like PoE and ESD, a lack of skilled workers is raising concerns in the electrical industry. According to data from the U.S. Bureau of Labor Statistics, from 2015 to

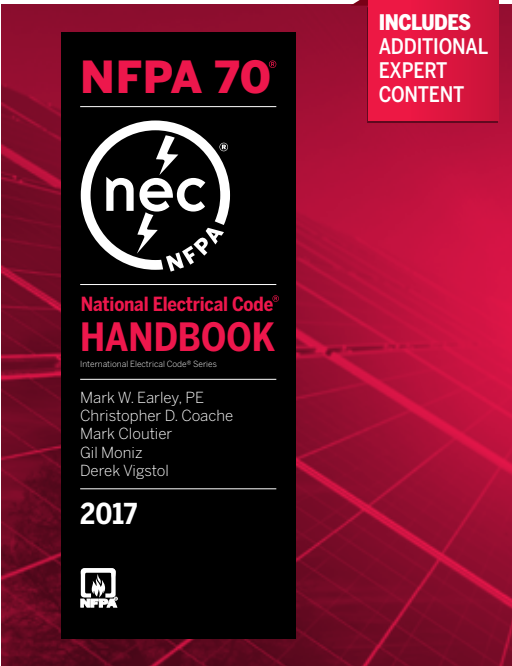
2024, about 6,000 to 7,000 electrical workers will have to be added to the workforce while another 6,000 to 7,000 will have to replace those retiring or leaving the trade.

This demand makes working with the most up-to-date information even more critical. NFPA is positioned to help. Chris Dubay, NFPA's vice president of codes and standards, explained to attendees at a recent Independent Electrical Contractors summit that NFPA is “one of those key information and knowledge resources. Take the time to engage with us ... I have no doubt that we can continue to learn from one another and raise the bar on electrical safety in our country.”

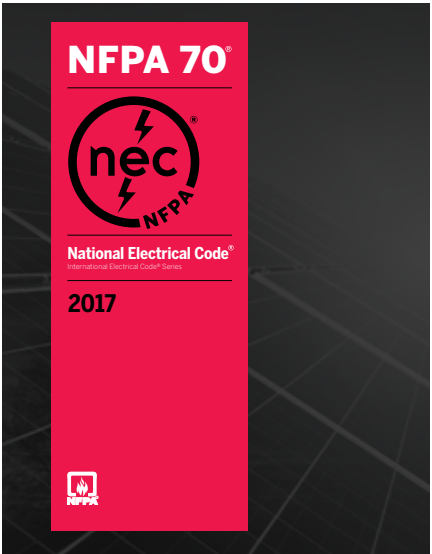
To follow the progression of the 2020 NEC and provide input, visit [nfpa.org/70](http://nfpa.org/70).

The full version of this article is available at [nfpa.org/stayingcurrent](http://nfpa.org/stayingcurrent).

**NFPA 70®** The 2017 edition of the *NEC®* is here, with revised requirements and emerging topics, such as renewable energy and energy storage. With NFPA 70, *National Electrical Code®*, you’re helping to protect those around you and build a safer world.



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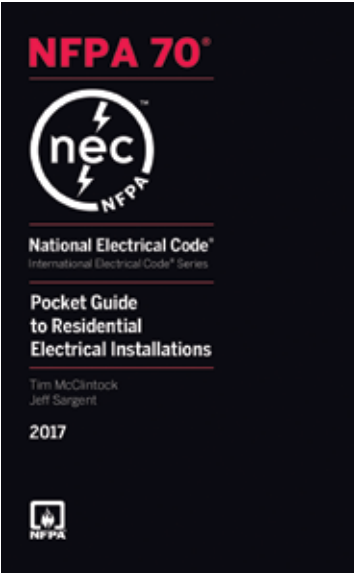
**A. 2017 NFPA 70, *National Electrical Code Handbook***  
With the *NEC Handbook*, you get the full code text paired with expert commentary for the additional insight you need to help resolve technical issues or explain code requirements to clients and staff.

**\$191.00** DBC-70HB17

**B. 2017 NFPA 70, *National Electrical Code***  
NFPA 70, *National Electrical Code*, continues to evolve in order to meet expanding industry challenges, such as the continuing growth of renewable power technologies and modern hazards.

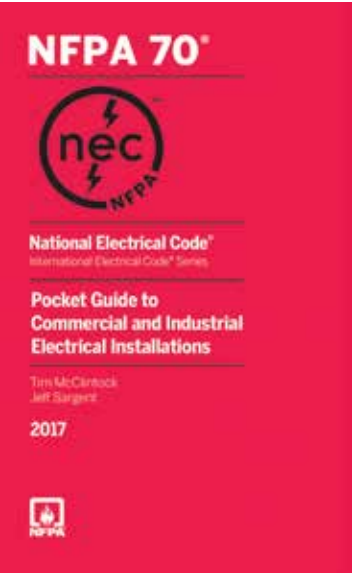
**Starting at \$102.00** DBC-7017SB

The 2014 edition of the *NEC* is available in Spanish DBC-7014SBE



**2017 *NEC® Pocket Guide to Residential Electrical Installations***  
Get access to *NEC* requirements that apply within residential installations in our convenient, portable pocket guide.

**\$32.00** DBC-PGNECR17



**2017 *NEC Pocket Guide to Commercial and Industrial Electrical Installations***  
Take the *NEC* sections that apply to commercial and industrial installations anywhere with this compact pocket guide.

**\$32.00** DBC-PGNECC17



**The “Big 3” Set**  
All the information you need to help get the job done safely is contained in this set, including 2017 *NEC*, 2016 NFPA 70B, and 2018 NFPA 70E®.  
**\$219.50** DBC-SET178



**2017 *NEC Self-Adhesive Index Tabs***  
Keep the *NEC*’s most valuable information right at your fingertips. These convenient self-adhesive tabs highlight electrical topics by code article and name. Set of 96.  
**\$18.00** DBC-NECTAB17

**FOR THE FULL SUITE OF NFPA 70 PRODUCTS, INCLUDING THE 2014 NEC, VISIT [SHOP.NFPA.ORG/70](http://shop.nfpa.org/70)**

# NFPA 70® TRAINING

If you want to help ensure safe and compliant electrical installation and design, boost your know-how with *NEC*® training straight from the people who develop the code. Our experts guide you through discussions, activities, and real-world exercises designed to make you more confident in your ability to perform safe installations. Take advantage of our in-person classes near you or our convenient online options.

## 2017 NFPA 70, *National Electrical Code*® Essentials

3-Day Classroom Training  
with Online Exam and Certificate  
**\$1,579.00**

DBC-NEC02C3

## 2017 *NEC* Changes

Online Training Series  
**\$175.00**

DBC-OLS040

## 2017 *National Electrical Code*

Online Training Series  
**\$249.95**

DBC-OLS018

## *NEC* Navigator™

Online Training Course  
**\$54.95**

DBC-OL082

FOR MORE INFORMATION ON NFPA 70 TRAINING, VISIT [SHOP.NFPA.ORG/70](https://shop.nfpa.org/70)

# A WEALTH OF RESOURCES YOU CAN TAP AS NEEDED



## NEC Online™

You rely on the *National Electrical Code*® to do your job. And with *NEC* Online, you can have all that life-saving information by your side, no matter where your job takes you.



## The First Responder Connection™

Created with first responders, for first responders. A free app with a wealth of current information, insights, and tools to keep you on the cutting edge.



## NFPA eLibrary

Keep your NFPA eBooks and PDFs always on hand—fully searchable and customizable—for easy reference on the job.

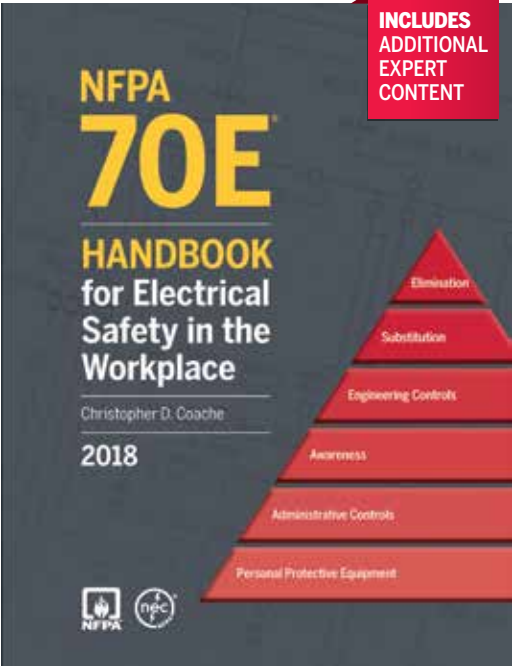


## CodeFinder

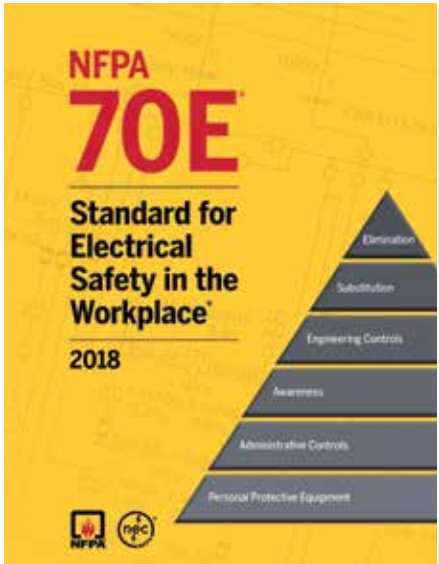
An online tool to help you gain insight into NFPA codes and standards, find codes around the world, and stay up to date on which regulations are in effect in your area.

[nfpa.org/codefinder](https://nfpa.org/codefinder)

**NFPA 70E®** For electrical workers, safety is priority #1. Give your team the know-how that can help keep them safe from shock, electrocution, arc flash, and other electrical hazards with NFPA 70E. This is considered the gold standard for electrical safety in the workplace that can help you avoid potentially deadly disasters.



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**A. 2018 NFPA 70E, *Handbook for Electrical Safety in the Workplace*®**

The Handbook provides the full standard text and expert commentary, plus a new Worker Alert feature highlighting crucial safety information, and the OSHA Connection, correlating OSHA's electrical safety standards with certain NFPA 70E requirements.

**\$165.00** DBC-70EHB18

**B. 2018 NFPA 70E, *Standard for Electrical Safety in the Workplace***

Help assess electrical risks, determine hazards, select PPE, establish an electrically safe working area, and help avoid tragedies with NFPA 70E. Fully updated for 2018.

**\$74.00** DBC-70E18

The 2015 edition of NFPA 70E is available in Spanish  DBC-70E15E

FOR THE FULL SUITE OF NFPA 70E PRODUCTS, VISIT [SHOP.NFPA.ORG/70E](https://shop.nfpa.org/70e)

# NFPA 70E® TRAINING & CERTIFICATION

Originally developed at OSHA's request, NFPA 70E is the key to helping save lives, reduce liability, and avoid loss due to electrical incidents. Take your electrical safety skills to the next level with knowledge straight from the source. Both our in-person, 2-day course offered at locations across the country and our convenient online training give you access to the skills that can help you save lives on the job. And with our industry-leading certifications, you can prove your value and help advance your career.

**2018 NFPA 70E, *Electrical Safety in the Workplace***

2-Day Classroom Training with Online Exam and Certificate  
**\$1,345.00** DBC-7E3

Online Training Series  
**\$249.95** DBC-OLS028

**2015 NFPA 70E, *Electrical Safety in the Workplace***

3-Day Hands-On Classroom Training  
**\$1,124.00** DBC-70EH3

Online Training Series  
**\$249.95**  DBC-OLS008

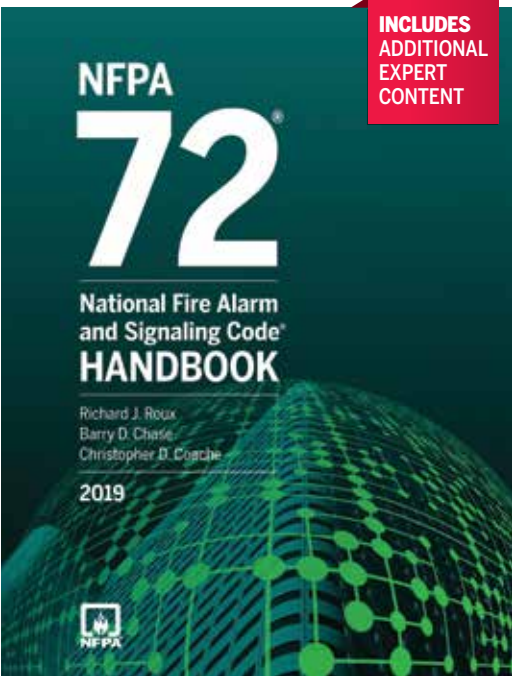
**Related Certifications**

NFPA training may help you meet the requirements for Certified Electrical Safety Compliance Professional (CESCP), Certified Electrical Safety Worker (CESW), and Certified Electrical Safety Technician (CEST) .

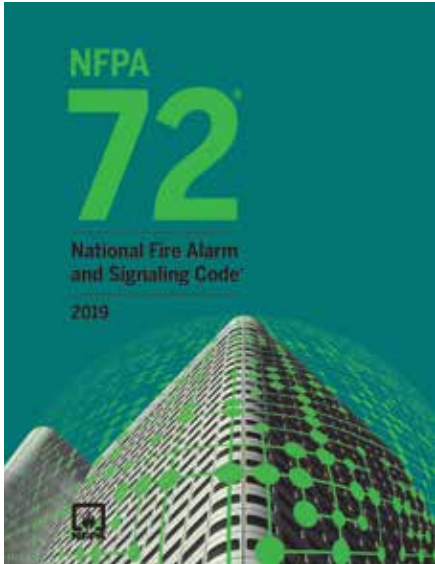


FOR MORE INFORMATION ON NFPA 70E TRAINING & CERTIFICATION, VISIT [SHOP.NFPA.ORG/70E](https://shop.nfpa.org/70e)

**NFPA 72®** The 2019 edition of NFPA 72 includes the latest requirements for fire alarm systems and signaling technology, including the use of networks and ethernet systems. This is the knowledge you need to help design and maintain lifesaving alarm systems.



A



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★ **A. NEW 2019 NFPA 72, *National Fire Alarm and Signaling Code®* Handbook**

Go beyond the code: understand NFPA 72 interpretations to confidently design and install systems with this handbook, featuring full code text and expert commentary.

**\$165.00** DBC-72HB19



★ **B. NEW 2019 NFPA 72, *National Fire Alarm and Signaling Code***

There's no substitute for the industry benchmark for design, installation, inspection, testing, and maintenance of emergency communications systems.

**\$102.50** DBC-7219



The 2016 edition of NFPA 72 is available in Spanish  DBC-7216E

2019 NFPA 72 TABS AVAILABLE ONLINE AT [SHOP.NFPA.ORG/72](https://shop.nfpa.org/72)

# NFPA 72® TRAINING & CERTIFICATION

Build your on-the-job expertise in alarm systems and signaling with our training courses. With our immersive 3-day courses and online training, you'll gain the knowledge you need to apply NFPA 72 to your workplace and help save lives with properly installed and maintained alarm and communications systems. We help develop the code, and we want to help you live it, with classes and certifications that can provide a vital boost to your career.

★ **NEW 2019 NFPA 72, *National Fire Alarm and Signaling Code®***

3-Day Classroom Training  
with Online Exam and Certificate

**\$1,579.00** DBC-FASC3

Online Training Series

**\$249.95** DBC-OLS042

Available in November

## Related Certifications

NFPA training may help you meet the requirements for NFPA Certified Fire Alarm ITM Specialist (CFAITMS).



FOR MORE INFORMATION ON NFPA 72 TRAINING & CERTIFICATION, VISIT [SHOP.NFPA.ORG/72](https://shop.nfpa.org/72)

# THE MAKEOVER: REORGANIZING AND CLARIFYING NFPA 13

Adapted from an *NFPA Journal*® story by David Hague



A few years ago, as part of the preparation for the 2016 edition of NFPA 13, *Standard for the Installation of Sprinkler Systems*, members of one of the standard's committees expressed concern over inconsistencies they had identified in the document. The standard had undergone more than 60 revision cycles, and had grown to nearly 500 pages. The NFPA 13 Correlating Committee noted these concerns and established a task group to review the entire document and identify ways to clarify it and make it easier to use.

The result is a major reorganization for the 2019 edition of NFPA 13. The standard has been trimmed to about 400 pages and the updated NFPA 13 was presented to NFPA's membership at the 2018 Technical Session in June.

The changes to the 2019 edition of NFPA 13 were nearly three centuries in the making.

The first known water-based fire extinguishing system was installed in England around 1723. The first sprinkler system in the United States was used in the mid-1800s, and while the first automatic sprinkler was invented in 1864, it wasn't until 1878 when Henry Parmelee created an automatic sprinkler that saw extensive use.

In the late 1800s, sprinkler technology was advancing rapidly in the U.S. In Boston alone, nine different sets of rules for the installation of sprinkler systems were in use. To address this issue a group of stakeholders met in the Boston offices of the Underwriters Bureau of New England in 1895 to draft a set of uniform requirements for the installation of sprinkler systems.

The resulting standard, "Rules and Regulations of the National Board of Fire Underwriters for Sprinkler Equipments, Automatic and Open Systems," led to the creation of NFPA 13, as well as NFPA itself, which was founded in 1896.

*...users will be able to find the information they need much more easily and in a more understandable way.*

In 1897, Everett U. Crosby, NFPA's first secretary of the association, outlined the principles used in establishing the sprinkler standard, effectively describing the process that continues to be used to guide NFPA technical committees to this day.

In the 1960s, the NFPA 13 Technical Committee was charged with evolving the standard to encourage innovation and technology. This was done with the intent of making systems available on a wider basis to further reduce fire loss. The effort resulted in the development of new types of pipe, fittings, and sprinklers, as well as the introduction of hydraulic calculations.

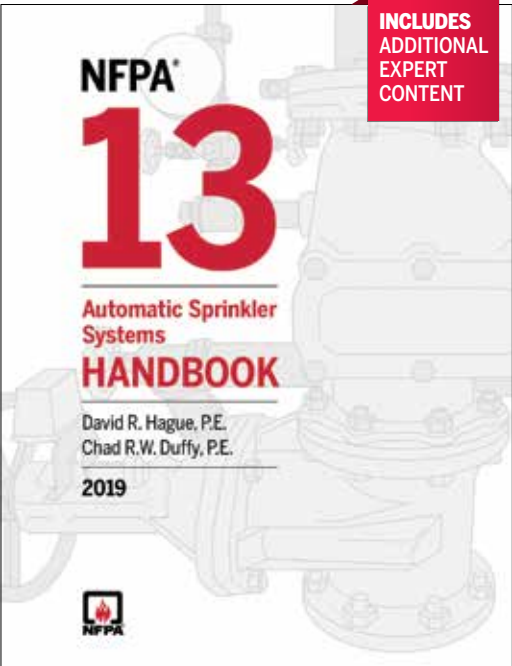
In the 1980s and 1990s, sprinkler technology exploded, and NFPA 13 grew accordingly to address the plethora of new technologies. For the 1999 edition, the technical committee decided to include all sprinkler requirements, adding language from approximately 40 other NFPA codes and standards. While this contemporary NFPA 13 was comprehensive, it was also due for a big-picture makeover.

As part of the reorganization of the 2019 edition of the standard, almost 500 lines of redundant text have been eliminated and chapters have been renumbered. Stakeholders expressed concern over being able to find familiar information in the reorganized standard. So we prepared a road map for the new edition similar to one created for the 1999 edition. We are working to create useful guidance so that every section from the 2016 edition can be found and is accounted for in the 2019 edition. The technical committee and task group are confident that, with regular use of the new NFPA 13, users will be able to find the information they need much more easily and in a more understandable way.

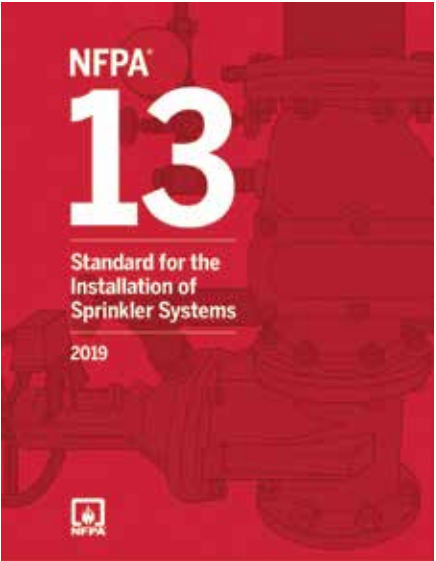
The full version of this article is available at [nfpa.org/reorganizing13](https://www.nfpa.org/reorganizing13).

NFPA 13

Correctly installed sprinklers can be the difference between cosmetic damage and tragedy. With NFPA 13, you have all the information you need to stay up to date with the latest construction materials, storage types, and other changes that are driving the increasing complexity of modern sprinkler systems.



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★ A. **NEW** 2019 NFPA 13, *Automatic Sprinkler Systems Handbook*

Pairing the full standard text with expert commentary, this handbook features worksheets, decision trees, and FAQs that help you understand the requirements to reduce risks and fire loss.

**\$176.50** DBC-13HB19



★ B. **NEW** 2019 NFPA 13, *Standard for the Installation of Sprinkler Systems*

Completely reorganized for 2019, NFPA 13 sets the standard for sprinkler system design, installation, and testing.

**\$110.00** DBC-1319



# NFPA 13 TRAINING

Sprinklers can save countless lives when installed by a well-trained professional. Add to your professional skill set with our in-depth training programs designed to give you lifesaving knowledge on issues such as identifying appropriate occupancy and commodity hazard classifications. Join us for interactive, in-person classes or our online training courses.

★ **NEW** 2019 NFPA 13, *Installation of Sprinkler Systems*

3-Day Classroom Training  
with Online Exam and Certificate

**\$1,579.00** DBC-ASPC3

Online Training Series  
**\$249.95**

DBC-OLS043

Available in November

**Automatic Sprinkler Plans Review**

2-Day Classroom Training and Workshop  
**\$700.00**

DBC-ASP2

**2016 NFPA 13, *Installation of Sprinkler Systems***

3-Day Hands-on Training  
with Online Exam and Certificate

**\$1,490.00** DBC-ASH3

**Related Certification**

NFPA training may help you meet the requirements for Certified Water-Based Systems Professional (CW BSP).



2019 NFPA 13 TABS AVAILABLE ONLINE AT [SHOP.NFPA.ORG/13](https://shop.nfpa.org/13)

FOR MORE INFORMATION ON NFPA 13 TRAINING, VISIT [SHOP.NFPA.ORG/13](https://shop.nfpa.org/13)

NFPA 13D & NFPA 13R

It's a fact: homes are safer with the help of sprinklers. A modern sprinkler system, installed up to code and well-maintained, can help reduce the risk of residential fire death by 80%. NFPA 13D and NFPA 13R contain the information you need to help reduce the number of deaths in a home.



★**NEW** 2019 NFPA 13D, *Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes*

Use up-to-date criteria to help ensure proper home fire sprinkler design, installation, water supply, equipment, and placement.

**\$54.00** DBC-13D19

★**NEW** 2019 NFPA 13R, *Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies*

Get the latest provisions for installation, including water supply and system acceptance in low-rise occupancies.

**\$49.00** DBC-13R19

★**NEW** 2019 NFPA 13, NFPA 13D, and NFPA 13R Set

Master every aspect of residential sprinkler system safety with the crucial guidance provided by NFPA 13, NFPA 13D, and NFPA 13R.

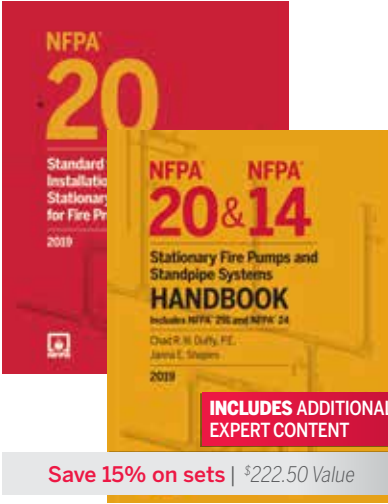
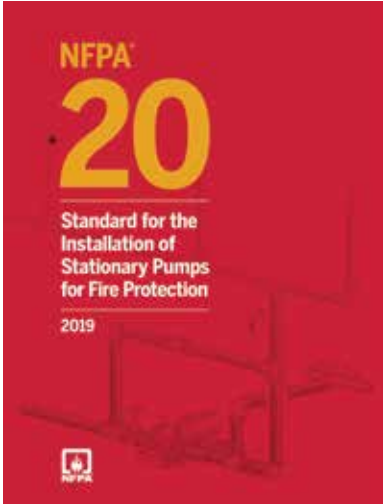
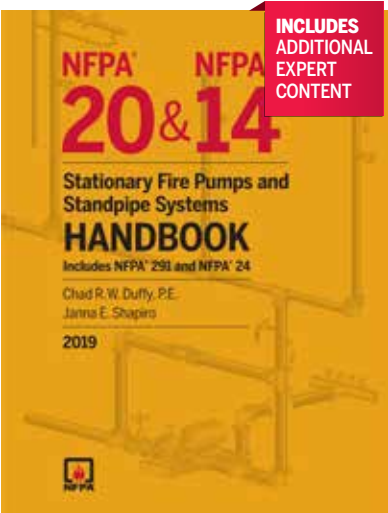
**\$163.12** DBC-SET264



FOR THE FULL SUITE OF NFPA 13D & 13R PRODUCTS, VISIT [SHOP.NFPA.ORG/13Dand13R](https://shop.nfpa.org/13Dand13R)

NFPA 20

Fire pumps are the heart of your fire protection system, and new technologies are making them more flexible than ever before. Gain the knowledge you need to choose the right pump system and help reduce costs with NFPA 20.



★**NEW** 2019 NFPA 20 & NFPA 14, *Stationary Fire Pumps and Standpipe Systems Handbook*

Get the latest on fire pump safety with the NFPA 20 & NFPA 14 Handbook. Includes expert commentary and all of NFPA's water supply requirements for fixed suppression systems, including NFPA 20, NFPA 24, NFPA 14, and NFPA 291.

**\$159.00** DBC-20HB19

★**NEW** 2019 NFPA 20, *Standard for the Installation of Stationary Pumps for Fire Protection*

Reference and apply up-to-date provisions for fire pump design, electrical and mechanical construction, acceptance testing, and operation.

**\$63.50** DBC-2019

★**NEW** NFPA 20 Standard and NFPA 20 & NFPA 14 Handbook Set

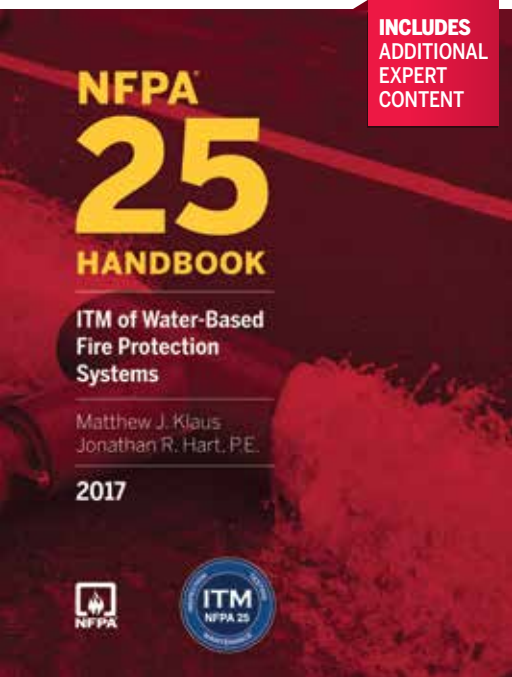
Always have the fire pump safety information you need with NFPA 20, along with vital commentary included in the NFPA 20 & NFPA 14 Handbook.

**\$189.25** DBC-20SET19

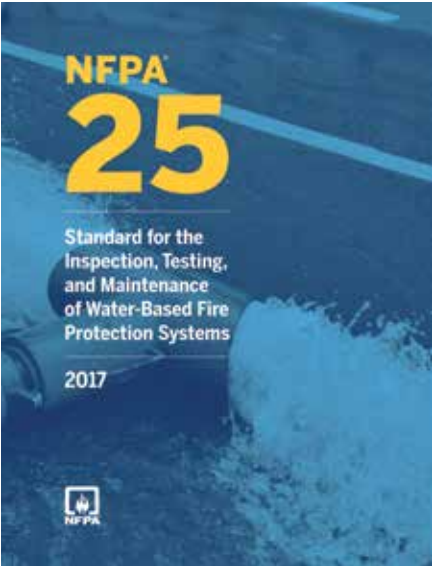


FOR THE FULL SUITE OF NFPA 20 PRODUCTS, VISIT [SHOP.NFPA.ORG/20](https://shop.nfpa.org/20)

**NFPA 25** Without proper maintenance, sprinklers can't do what they are designed to do. Your ability to inspect, test, and maintain modern sprinkler systems can help you ensure that the system you're working on is as safe and reliable as possible.



A



B

**A. 2017 NFPA 25 Handbook, *ITM of Water-Based Fire Protection Systems***

With the full standard text and expert commentary found in this handbook, you help ensure ITM is handled correctly using step-by-step testing procedures.

**\$159.00** DBC-25HB17

**B. 2017 NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems***

Apply the latest provisions, new sprinkler replacement rules, and updated ITM Table in the 2017 NFPA 25.

**\$63.50** DBC-2517

The 2017 edition of NFPA 25 is available in Spanish  DBC-2517E

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Proper training can make the difference between a sprinkler system that helps save lives and one that doesn't. Boost your ITM knowledge with our 3-day hands-on and online training courses designed to help you keep buildings, assets, and people better protected. With training from the people who help develop the code, you can build on your existing skills and be better prepared to improve safety in the workspace. Then, take the next step and earn your certification.

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3-Day Hands-On Classroom Training **\$1,490.00** DBC-25ITMD3

Online Training Series **\$94.95** DBC-OLS019

**Related Certification**

NFPA 25 training may help you meet the requirements for Certified Sprinkler ITM Specialist (CSITMS).

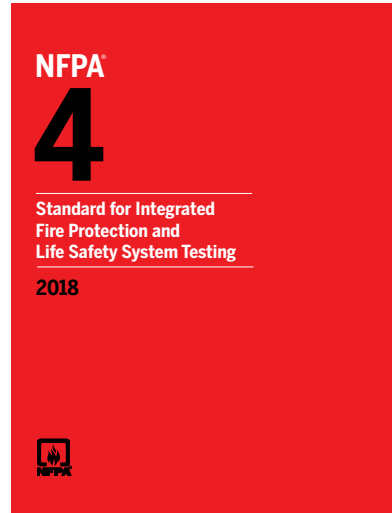
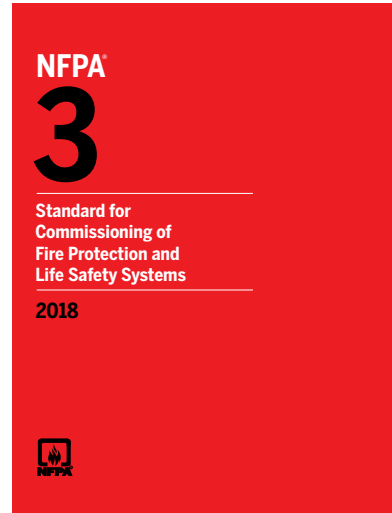


FOR MORE INFORMATION ON NFPA 25 TRAINING & CERTIFICATION, VISIT [SHOP.NFPA.ORG/25](https://shop.nfpa.org/25)

## FIRE PROTECTION SYSTEMS

### NFPA 3 & NFPA 4

Integrated systems only work properly when they are integrated properly. NFPA 3 and NFPA 4 provide you with the knowledge to anticipate and avoid the oversights that could cause system failure in an emergency. These are vital tools for helping anticipate dangers and decreasing risk.



#### 2018 NFPA 3, *Standard for Commissioning of Fire Protection and Life Safety Systems*

NFPA 3 gives stakeholders a process for the commissioning of fire protection and life safety systems, to be sure they are designed, installed, and function as intended.

**\$54.00** DBC-318



#### 2018 NFPA 3, *Standard for Commissioning of Fire Protection and Life Safety Systems Handbook*

Get deeper insight and handy tools for taking on the complex process of commissioning fire protection and life safety systems.

**\$70.00** DBC-318A



#### 2018 NFPA 4, *Standard for Integrated Fire Protection and Life Safety System Testing*

Invaluable to stakeholders in the testing process, NFPA 4 provides the minimum requirements for integrated testing and documentation prior to building occupancy and during a building's lifecycle. Also referenced in NFPA 1 & NFPA 101.

**\$49.00** DBC-418



#### 2018 NFPA 4, *Standard for Integrated Fire Protection and Life Safety System Testing Handbook*

This Handbook explains test methods, test frequencies, documentation, and other activities associated with properly testing integrated fire protection and life safety systems.

**\$63.50** DBC-418A



FOR THE FULL SUITE OF NFPA 3 & 4 PRODUCTS, VISIT [SHOP.NFPA.ORG/3and4](https://shop.nfpa.org/3and4)

## THE FIRE & LIFE SAFETY ECOSYSTEM

We see fewer fires today than ever in history, but statistically, if you have a fire in your home today you are more likely to die than you were 20 years ago. How is this possible? Sprinklers, smoke alarms, codes, and enforcement are all designed to prevent fires, but they are often met with resistance—underused, ignored, or allowed to become outdated. Collectively we have forgotten to connect the dots.

NFPA is committed to reminding the world to occasionally step back from their individual area of focus and take measure of the bigger picture. We call it the Fire & Life Safety Ecosystem—eight elements crucial to protecting life and property.



Learn more and watch President Jim Pauley as he explains the Fire & Life Safety Ecosystem at NFPA's June 2018 Conference & Expo at [nfpa.org/ecosystem](https://nfpa.org/ecosystem).

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# EFFECTING CHANGE

A user of NFPA's facade fire risk assessment tool praises its ability to simplify a complex and challenging issue

Adapted from an *NFPA Journal*® story by Angelo Versoni

In February, NFPA released the Exterior Facade Fire Evaluation and Comparison Tool (EFFECT™) for users worldwide to determine which buildings in a particular set are at the highest risk for fires. The tool can be found on [nfpa.org/exteriorwalls](https://nfpa.org/exteriorwalls).

Reem Madkour, a user of EFFECT, works in the United Arab Emirates as a senior consultant for the global engineering company WSP. Over the last several years, the UAE—the city of Dubai in particular—has experienced major fires involving facades on high-rise buildings, and WSP has worked closely with developers and UAE Civil Defence authorities in the region to explore the problem. He was kind enough to answer questions about his experiences with EFFECT.

## Why did you start using EFFECT?

With the introduction of the UAE Fire and Life Safety Code in 2011–12 and similar legislation in other countries in the region, awareness of the dangers of combustible cladding has become a focus in our industry. Consequently, facade fire safety has dramatically improved in subsequent construction. However, the issue of the performance of pre-existing building stock has been the subject of much debate.

## What value have you found in the tool?

The tool provides a common and comparable method of prioritizing buildings within a portfolio to highlight potential fire and life safety risks. Combined with our past experiences and wealth of technical knowledge of global codes and standards, the tool provides us with a fuller picture for input on a project-by-project basis.

*“...the tool provides us with a fuller picture for input on a project-by-project basis.”*

## Was there anything that surprised you about the tool when you first used it?

We were surprised and pleased with how unequivocal the rating and recommendation were. As consultants, we are sympathetic to the impacts our recommendations can have on clients, so it's nice to have an unsympathetic tool to deliver what may be considered “bad news.”

What is important to remember with existing buildings is that updating them to achieve full code compliance with updated building codes may not be possible or practical. However, a more realistic approach to significantly reduce existing risk is still superior to the “do nothing” alternative.

## How does the tool make sense of such a complex issue?

The tool reduces many of the factors that affect the potential for fire and fire spread into, essentially, yes or no questions. This greatly simplifies the process of combining all of that information into a final rating.

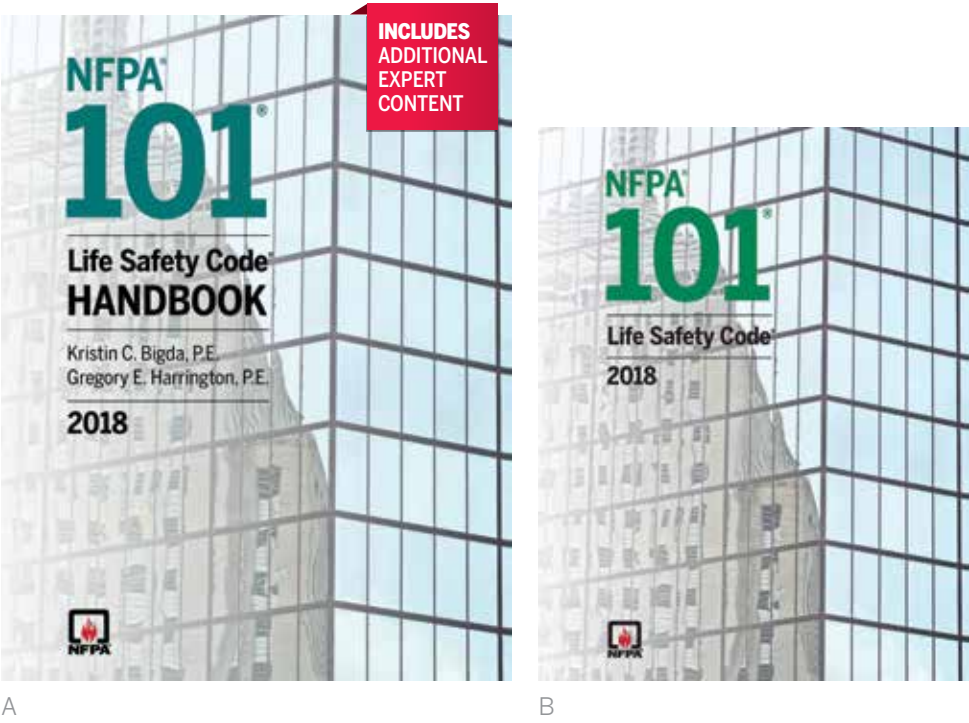
## Who would you recommend start using EFFECT?

Building owners and consultants are probably in the best position to use and benefit from this tool. We recommend the involvement of facade and fire and life safety professionals during the analysis to ensure accurate data entry. As with any tool, the output is only as accurate as the information input into the program... We see this as a great first review tool. Most buildings will need a subsequent level of expert assessment following the review provided by the tool.

The full version of this interview is available at [nfpa.org/effectingchange](https://nfpa.org/effectingchange).

NFPA 101®

Saving lives is the primary goal of NFPA 101. Our up-to-date, expertly vetted information on egress, sprinklers, alarms, and more can mean the difference between occupant safety and serious loss of life. Get the code, and get to work helping to save lives.



A. 2018 NFPA 101, *Life Safety Code*® Handbook

Life Safety Code violations can result in fatal fires. Help ensure proper application of NFPA 101 with the full code text and updated commentary for 2018. Only the handbook shows the 21 new and existing occupancy chapters side-by-side, for easy comparison and implementation.

\$197.00

DBC-101HB18



B. 2018 NFPA 101, *Life Safety Code*

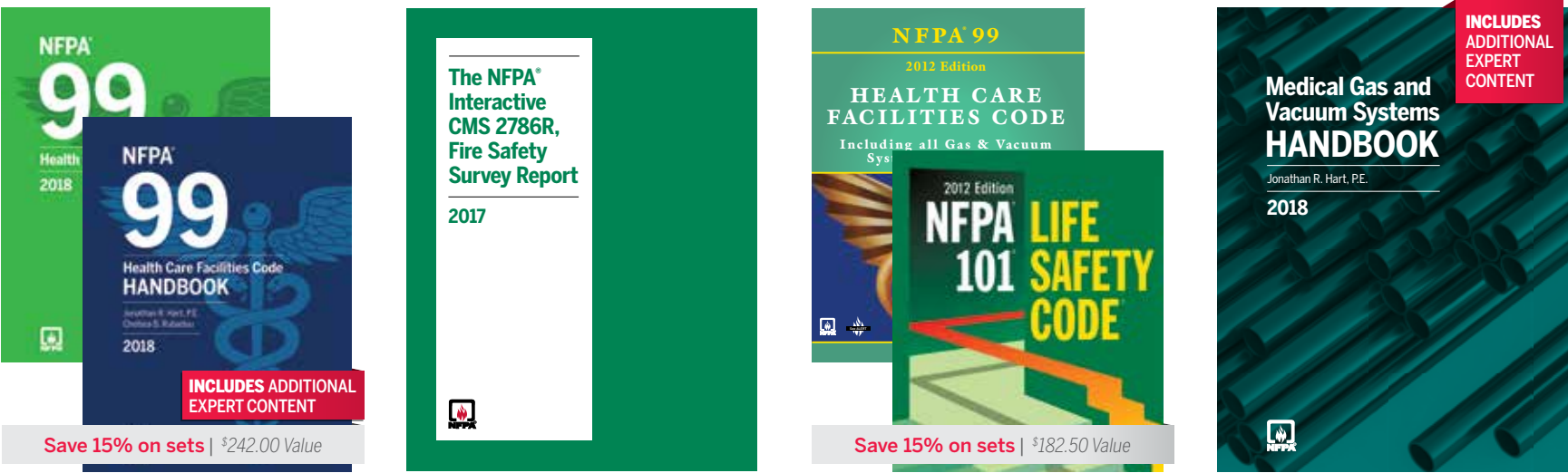
Occupant safety demands compliance with NFPA 101 requirements for egress, alarms, sprinklers, lighting, smoke barriers, and special hazard protection. Includes new provisions for classroom door-locking and integrated systems testing.

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DBC-10118



The 2015 edition of NFPA 101 is available in Spanish  DBC-10115E



2018 NFPA 99, *Health Care Facilities Code* and Handbook Set

Also available individually, these two resources provide risk-based performance criteria for health care facilities, and are a must-have for everyone involved in health care safety.

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NFPA Interactive CMS 2786R, *Fire Safety Survey Report*

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2018 NFPA 101 TABS AVAILABLE ONLINE AT [SHOP.NFPA.ORG/LIFESAFETY](https://shop.nfpa.org/lifesafety)

2018 NFPA 99 AND 2018 NFPA 101 CODE BOOKS AVAILABLE ONLINE AT [SHOP.NFPA.ORG/LIFESAFETY](https://shop.nfpa.org/lifesafety)

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## Related Certifications

NFPA training may help you meet the requirements for: Certified Life Safety Specialist for Health Care (CLSS-HC), Certified Emergency Power Systems Specialist (CEPSS) for Facility Managers, Certified Emergency Power Systems Specialist for Health Care Facility Managers (CEPSS-HC), and NEW Certified Hazard Recognition Specialist (CHRS).



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The right knowledge and skills can help keep people safe, especially when it comes to facilities management. With our classroom and hands-on training for NFPA 101®, NFPA 99, and NFPA 80, you can better protect people and places in health care and beyond. This specialized training adds important tools to your skill set and can make you even more effective at your job.

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# RAPID ADVANCE: THE EVOLVING WORLD OF ENERGY STORAGE SYSTEMS

Adapted from an *NFPA Journal*® story by Jesse Roman

Last September, 30 miles north of San Diego, the company AES Energy Storage turned on the power to what was, at the time, the world's largest lithium ion battery array. Housed in rows of windowless industrial white boxes, the energy storage system (ESS), as such arrays are called, doesn't look like much to a layperson. But including the AES battery, utilities in Southern California have installed at least 100 megawatts of ESS capacity in recent years, enough to power tens of thousands of homes for hours when the need arises.

Despite the successes, the proliferation of thousands of large energized boxes across the country—including many in buildings where people live and work—does not come without risk. Identifying those risks and how to deal with them has been a significant focus for NFPA and other safety and research organizations over the past several years. A centerpiece of these efforts has been the push to create NFPA 855, *Standard for the Installation of Stationary Energy Storage Systems*. The developing standard includes guidance for a wide range of battery and chemistry types on thorny issues such as installation, ventilation, maintenance, operation, decommissioning, and fire prevention.

"This guidance is badly needed for those tasked with regulating and responding to emergencies involving ESS," says Howard Hopper, a fire protection engineer and program manager at UL who has been involved with NFPA, the International Code Council, and the International Association of Fire Chiefs in addressing ESS standards.

"As we see more of these large-scale ESS installations, there is concern from authorities having jurisdiction (AHJs) that there is a lack of protection in the legacy fire code requirements," he says. "They are asking us how they can adequately protect these systems if the codes they are enforcing don't really have anything that addresses the hazards."

*Energy storage capacity is expected to double six times in the next dozen years.*

ESS installations are becoming commonplace across the globe as utilities, businesses, and even many consumers unleash the technology's potential to help control energy costs and increase efficiency. According to a recent report from *Bloomberg New Energy Finance*, energy storage capacity is expected to double six times in the next dozen years. Increasingly, these batteries are tucked inside apartment buildings, in parking garages, on rooftops, in strip malls, and on worksites.

While AHJs eagerly await more ESS guidance, the fire service is asking its own questions, according to Ron Butler, a former Detroit firefighter and the president of Energy Storage Safety Products International. "Firefighters know a lot about a lot of things, but ESS is not something we are experts in," Butler says. Case in point, a Mountain View, California, fire department responded to a crash involving a Tesla Model X; the car's battery was split open and on fire, and individual battery cells were strewn across the freeway. The scene was simultaneously a fire, a HAZMAT incident, and a shock hazard. Standardizing the installation of ESS and the safety elements that must be present—a main objective of NFPA 855—will bring more consistency to the process and help firefighters develop procedures and preplans.

Even as the development of NFPA 855 continues, the task facing the fire service when it comes to energy storage systems remains enormous. According to Butler, "The fire service has a universe of responsibilities, and it can't just be on our shoulders to make sure ESS is safe—it needs to be a collective effort." The partners essential for success include building owners, maintenance workers, facilities managers, and others. "They all need to help us out," Butler says. "We need to work together."

The full version of this article is available at [nfpa.org/energystoragesystems](https://www.nfpa.org/energystoragesystems).

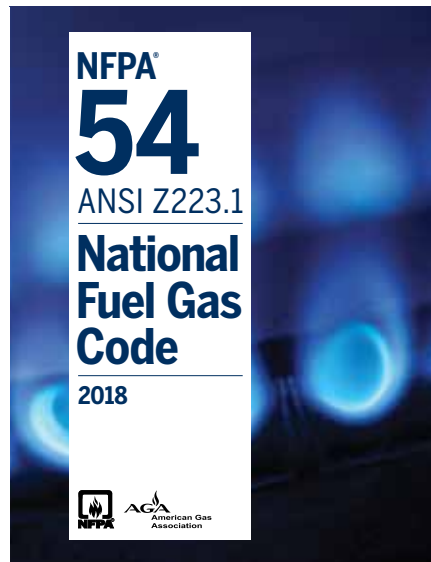
## INDUSTRIAL HAZARDS

### NFPA 54

NFPA 54, *National Fuel Gas Code*, is the American National Standard (ANSI Z223.1) that applies to the installation of fuel gas piping systems, equipment, and appliances that are supplied with natural gas, manufactured gas, liquefied petroleum gas (LP-Gas) in the vapor phase, and other gas–air mixtures in the flammable range.



A



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#### A. 2018 NFPA 54, *National Fuel Gas Code Handbook*

In addition to the complete text of the *National Fuel Gas Code*, the handbook's commentary from recognized authorities in the field gives you the background, rationale, and practical tips you need to understand and apply the code.

**\$159.00**

DBC-54HB18



#### B. 2018 NFPA 54, *National Fuel Gas Code*

The updated edition provides new minimum safety requirements for the design and installation of fuel gas piping systems in homes and other buildings.

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The 2014 edition of NFPA 54 is available in Spanish  DBC-5814E

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LET'S PROTECT IT TOGETHER.

# THE TIME SPENT PLANNING TODAY COULD SAVE LIVES IN A CRISIS TOMORROW.



 **Learn more about NFPA 3000™ (PS) at [nfpa.org/nfpa3000](https://nfpa.org/nfpa3000)**

When an active shooter or hostile event occurs, the situation unfolds quickly. With more and more people becoming involved as responsibilities spread from the scene of the tragedy to hospitals and the community at large, it's imperative that everyone be on the same page.

NFPA 3000™ (PS), *Standard for an Active Shooter/Hostile Event Response (ASHER) Program* was created specifically to help communities develop an integrated program to plan for, respond to, and recover from hostile events. Unlike other NFPA standards, NFPA 3000™ (PS) is not a list of measures to take, but rather a set of guidelines with which any community can create a unified plan of response specific to the community's needs.

**NFPA 3000™ (PS) is available in the following formats:**

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The print edition plus a 3-year online subscription gives you access anytime, anywhere\*, providing the latest updates as they are released. **Purchase both today and SAVE 10%.**

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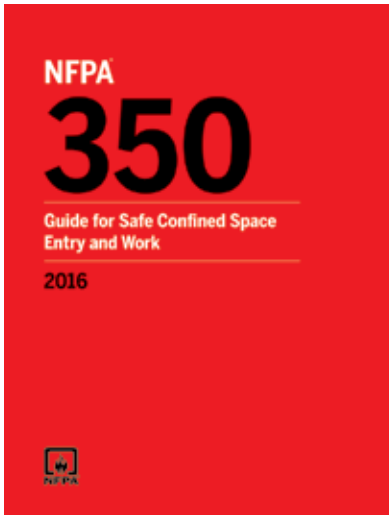
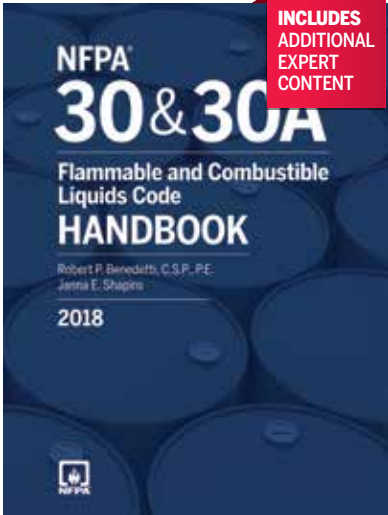
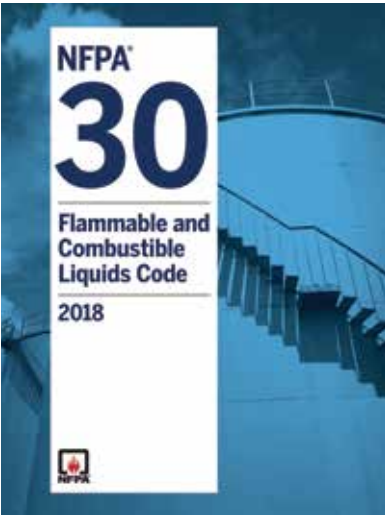
**NFPA 3000™ (PS) Print Edition**, \$52.00

The blueprint to customizing your community's integrated plan for responding to active shooter and hostile events.

**NFPA 3000™ (PS) Online Training**, \$249.99

Broaden your understanding of NFPA 3000™ (PS) and learn how to translate its requirements into effective planning, response, and recovery. Earn your Specialist Badge while you learn about best-practice strategies based on lessons learned.

(\*Online subscription requires internet connectivity.)



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Referenced by the U.S. Department of Transportation and enforced in most states, NFPA 58 governs LP-gas storage, handling, transportation, and use. Help mitigate hazards with commentary and implementation information from leading code experts provided in the handbook.

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Online Training Series

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## 2013 NFPA 654, *Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*

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# NFPA 3000™ (PS): WRITING HISTORY

Adapted from an *NFPA Journal*® story by Angelo Verzoni

Ten of the 15 deadliest mass shootings in modern United States history have occurred in the past 12 years, claiming the lives of over 250 people, according to multiple sources.

Against this backdrop, conversations began taking place among NFPA stakeholders on whether the organization had a role to play in addressing the problem, and what that guidance might look like. Both of those questions have been answered. In March, a committee of more than 40 public safety experts met at NFPA headquarters to finalize the language for a groundbreaking new standard. NFPA 3000™ (PS), *Standard for an Active Shooter/ Hostile Event Response (ASHER) Program*, provides a roadmap for communities as they prepare for, respond to, and recover from active shooter and other hostile events.

“NFPA can’t prevent these tragedies, but we do think there is more to be done in how they are responded to,” says NFPA President and CEO Jim Pauley. “While no standard or code in the world can prevent horrific attacks from occurring in the future, NFPA 3000 is intended to make communities better-equipped to deal with such tragedies.”

In the early hours of June 12, 2016, an active shooter named Omar Mateen opened fire with a rifle inside Pulse, a crowded nightclub in Orlando, Florida. Forty-nine people were killed in the incident. As the event unfolded, first responders converged outside the building. Although they had trained together for such incidents, command and communications at the scene broke down. “It was like a game of telephone,” according to Otto Drozd, Chief of Orange County Fire Rescue in Florida. Not only was communication difficult, but the logistics of working with the many outside agencies that came to Orlando in the aftermath, including the FBI, also presented

challenges. The experience prompted Drozd, in October 2016, to officially submit a request for NFPA to develop a standard on preparedness and response to active shooter and hostile events.

A critical part of preparation is conducting a risk assessment, as outlined in NFPA 3000, to identify the locations that are most at-risk for an active shooter or hostile event, and then make sure the people who are in charge of those locations, such as facility managers, are prepared.

Equally as important as preparation is addressing the far-reaching and long-lasting nature of these events. NFPA 3000 instructs communities to be prepared for recovery before an incident occurs. Plans need to be in place, for example, to provide mental health treatment to first responders and to set up a recovery center for

victims and victim families, rather than scrambling to plan and implement these resources after the fact.

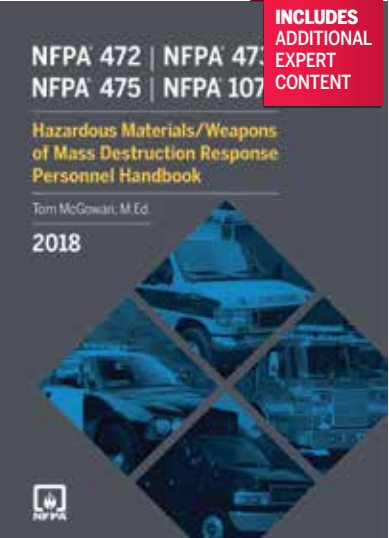
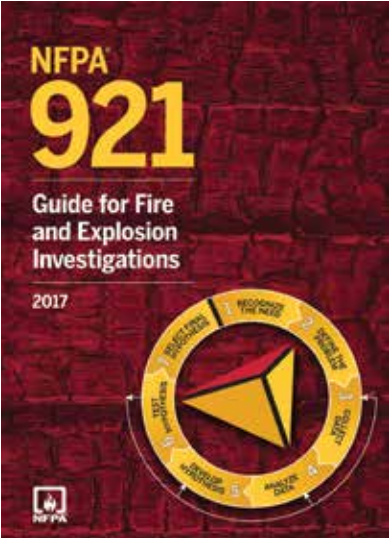
When Drozd submitted his request for NFPA to develop a standard like

NFPA 3000, he cited the need with statistics. “Between 2000 and 2013, over 160 active shooter events have occurred within the United States, killing 468 and injuring over 550,” he wrote. That was before the Las Vegas shooting that injured nearly as many as had been hurt in the numbers Drozd cited. The need for NFPA 3000 couldn’t be clearer. Ultimately that need and a shared goal of saving lives are what powered committee members through a grueling four days of finalizing the new standard. “When we started this thing, we knew it would be difficult,” Drozd told members on the final day of their meeting. “But nothing worthwhile is going to be easy.”

The full version of this article is available at [nfpa.org/writinghistory](https://nfpa.org/writinghistory).

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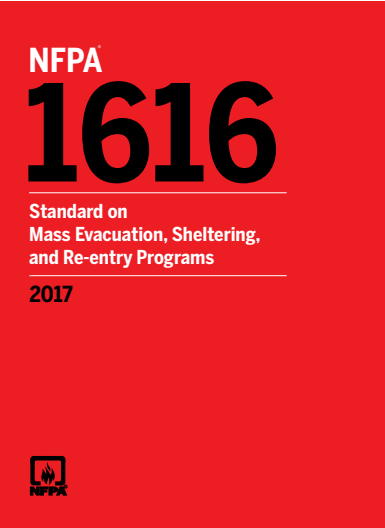
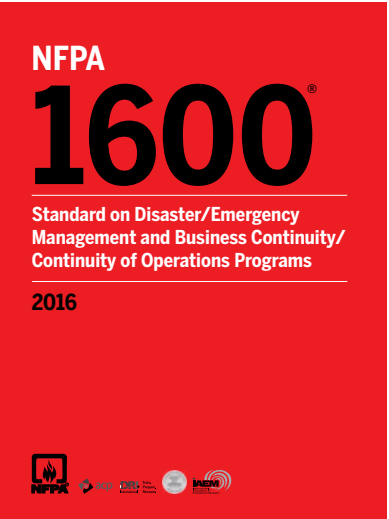
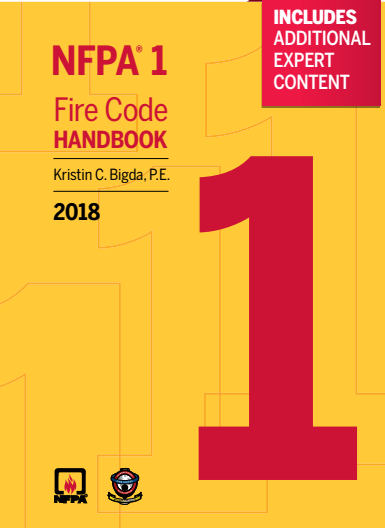
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FIRE PROTECTION

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