



# National Earthquake Technical Assistance Program (NETAP)

A Resource Guide for Regional and State/Territory Earthquake Program Managers

2020-2021



**FEMA**



## WHAT IS NETAP?

In accordance with the [Earthquake Hazards Reduction Act of 1977 \(amended in 2004\) and the National Earthquake Hazards Reduction Program \(NEHRP\)](#), it is the responsibility of the Federal Emergency Management Agency (FEMA) to support “the implementation of a comprehensive earthquake education and public awareness program, including development of materials and their wide dissemination to all appropriate audiences and support public access to locality-specific information that may assist the public in preparing for, mitigating against, responding to and recovering from earthquakes and related disasters.”

FEMA developed the [National Earthquake Technical Assistance Program \(NETAP\)](#) as a mechanism for delivering direct assistance to the public through state, territory, or local government entities, to increase their knowledge and ability to analyze their risk, make a plan, and take actions aimed at reducing their earthquake risk and supporting overall community resilience.

NETAP is a program managed by FEMA to rapidly deploy trainings to organizations and communities. This Resource Guide provides information on the available NETAP training courses and how state, territory, or local government entities can request these trainings.

## WHAT ARE NETAP TRAININGS?

NETAP provides trainings and associated materials on topics related to earthquake risk reduction. The trainings, which span from a few hours to two days in duration, are intended for a wide variety of participants with diverse professional backgrounds.

NETAP pays for the salary and expenses of an approved instructor and for any educational materials used by the training participants and instructor. The state, territorial, or local government requesting the training, in cooperation with any partnering organizations, is responsible for recruitment and registration of students. For in-person trainings, the requesting organization is also responsible for local logistical requirements (e.g., meeting space, audio/visual equipment, refreshments). See “What Are the Responsibilities of the Organization Requesting the Training?” below for more information on the requirements for the requestor.

The 2021 training season is scheduled to run from February to June 2021.

## WHICH STATES AND TERRITORIES ARE ELIGIBLE FOR NETAP TRAININGS?

States and territories designated by FEMA as having high or very high earthquake risk are eligible for NETAP trainings. The states and territories eligible for trainings in 2021 are: Alaska, Arizona, Arkansas, California, Guam, Hawaii, Idaho, Illinois, Indiana, Kentucky, Mississippi, Missouri, Montana, Nevada, Oklahoma, Oregon, Puerto Rico, South Carolina, Tennessee, Utah, Virgin Islands, Washington, and Wyoming.

## IMPACT OF COVID-19 ON 2021 TRAINING DELIVERY

Due to the impacts of COVID-19 gathering and travel restrictions, **web-based training** is the only delivery method that will be offered in the 2021 training program. In-person trainings will not be offered.

## HOW TO REQUEST NETAP TRAINING

The process for obtaining NETAP training is described in the following steps:

Identify  
Need and  
Request  
Training

### 1. Identify Need and Request Training

Applicants are required to complete the [NETAP Training Request Form](#), identifying the specific trainings requested, preferred training dates, training location, anticipated number of participants, and the primary point(s) of contact. The [State/Territory Earthquake Program Manager](#) or other state/territory official with responsibility for earthquake mitigation identifies the need for trainings. In some cases, this need may be identified in consultation with local organizations, such as county emergency services or nonprofits focused on earthquake risk reduction.

Request  
sent to  
NETAP  
Contractor

### 2. Request Sent to NETAP Contractor

The State/Territory Earthquake Program Manager submits the request to the [NETAP Contractor](#) (the Applied Technology Council, ATC) to evaluate the request. State/Territory Earthquake Program Managers are advised to work with their Regional Earthquake Program Managers in developing their training requests.

Review and  
Coordinate

### 3. Review and Coordinate

The NETAP Contractor, in collaboration with the FEMA NETAP Manager, reviews the training request. Further discussion may be needed with the requestor to clarify anything that is unclear or to provide guidance on technical information about the available trainings.

Qualified  
Training  
Approved

### 4. Qualified Training Approved

Based on the review and coordination process, a final decision is made by the FEMA NETAP Manager based on program funding and priorities, target outcomes and benefits of the request, and other relevant factors, such as local earthquake risk and capacity of the requesting organization to execute the proposal in partnership with FEMA.

Training  
Delivery

### 5. Training Delivery

If approved, the NETAP Contractor deploys approved contract resources in collaboration with the FEMA Regional and State/Territory Earthquake Program Managers (and the requesting organization, if it is not the state/territory).

Performance  
Reporting

### 6. Performance Reporting

Immediately after the NETAP training, the State/Territory Earthquake Program Manager (or other requesting organization) reports the number of participants and provides a copy of the sign-in sheet to the NETAP Contractor. The contracted instructor submits a brief written summary of the training accomplishments and copies of the completed evaluation forms from participants to the NETAP Contractor.

Certificate of  
Participation

### 7. Certificate of Participation

Upon request, the State/Territory Earthquake Program Manager (or other requesting organization) may request Certificates of Participation for training participants.

## WHAT ARE THE RESPONSIBILITIES OF THE ORGANIZATION REQUESTING THE TRAINING?

Once the training(s) have been approved, the State/Territory Earthquake Program Manager (or other requesting organization) requesting the training, in cooperation with any partnering organizations, is in charge of the following:

- Advertisement and recruitment of participants for the training. Flyers for use by the requesting organization to advertise the training will be provided by the NETAP Contractor after the training is approved. In order to make the best use of NETAP funds and to reach as many people as possible, trainings require a minimum of 25 participants.

For in-person trainings, the requesting organization is also in charge of the following:

- All local logistics, including venue reservation, and audio/visual equipment (projector and screen, as well as microphone and speakers when necessary).
- Submittal of completed NETAP Training Materials Request Form to the NETAP Contractor at least two weeks in advance of the scheduled training to ensure that all training materials arrive in time for the training. This form will be provided to the requestor once the training is confirmed.
- Administering a sign-in sheet for each training on which all participants record their presence at the training. An electronic copy of each completed sign-in sheet should be submitted to the trainer and the NETAP Contractor no later than one week after each training.
- Storage of course training materials until the course is delivered.
- If Certificates of Participation are requested, an electronic roster of participant names in Excel or Word format should be provided to the NETAP Contractor. If the requestor would like to distribute the certificates during the training, they should submit the electronic roster of registered participants at least five working days in advance of the scheduled training. Certificates can also be generated by the NETAP Contractor after the completion of the training. In either case, the requestor is responsible for distributing the certificates to the participants.
- Refreshments and/or snacks for participants during breaks (optional).

For web-based trainings, the NETAP Contractor is responsible for administering registration, hosting the training on a web-based platform, and distributing Certificates of Participation.

## AVAILABLE NETAP COURSES

Table 1 provides an overview of available training courses and their durations.

**Table 1** NETAP Training Courses

Course Number	Course Title	In-Person Duration	Web-based Duration
FEMA E-74	Reducing the Risks of Nonstructural Earthquake Damage	6 hours	4 hours
FEMA 232	Homebuilders' Guide to Earthquake-Resistant Design and Construction	6 hours	4 hours
FEMA 395	Earthquake Safety and Mitigation for Schools	3 hours	3 hours
FEMA P-50 & FEMA P-50-1	Simplified Seismic Assessment and Retrofit Guidelines of Detached, Single-Family, Wood-Frame Dwellings	6 hours	4 hours
FEMA P-154	Rapid Visual Screening of Buildings for Potential Seismic Hazards	4 hours	4 hours
FEMA P-154 and ATC-20	Rapid Visual Screening of Buildings for Potential Seismic Hazards / Postearthquake Safety Evaluation of Buildings	8 hours	2 days, 4 hrs each day
FEMA P-154, ATC-20, and ROVER	Rapid Visual Screening of Buildings for Potential Seismic Hazards / Postearthquake Safety Evaluation of Buildings, and Rapid Observation of Vulnerability and Estimation of Risk	2 days (Day 1: 6 hrs; Day 2: 5 hrs)	N/A
FEMA P-749	Earthquake-Resistant Design Concepts: An Introduction to the NEHRP Recommended Seismic Provisions for New Buildings and Other Structures	6 hours	4 hours
FEMA P-767	Earthquake Mitigation for Hospitals	7 hours	4 hours
FEMA P-909	Home and Business Earthquake Safety and Mitigation: Train the Trainer	3 hours	N/A
FEMA P-1000	Safer, Stronger, Smarter: A Guide to Improving School Natural Hazard Safety	2 hours	2 hours
FEMA P-1024, -RA1, -RA2	Performance of Buildings and Nonstructural Components in the 2014 South Napa Earthquake, and South Napa Earthquake Recovery Advisories	2 hours	2 hours
FEMA P-2018	Seismic Evaluation of Older Concrete Buildings for Collapse Potential	6 hours	4 hours
FEMA P-2055	Post-disaster Building Safety Evaluation Guidance	4 hours	4 hours
FEMA P-2055 and ATC-20	Post-disaster Building Safety Evaluation Guidance / Postearthquake Safety Evaluation of Buildings, and Rapid Observation of Vulnerability and Estimation of Risk	8 hours	2 days, 4 hours each day
Building Code Overview	Building Codes – Why They Matter	2 hours	2 hours
Classroom & Beyond	Reducing Earthquake Risk in the Classroom and Beyond: Seismic Mitigation of Nonstructural Hazards in Schools	3 hours	3 hours
Manufactured Homes	Improving Earthquake Performance of Manufactured Homes	1.5 hours	1.5 hours

Table 2 provides information on the target audience for each training course. The information in the table is not meant to limit participation; it is provided for guidance purposes only.

**Table 2 Target Audience for NETAP Trainings**

Training	Architects	Building Officials	Building Owners	Business Owners	Contractors	Emergency Managers	Engineers	Facility Managers	Home/Property Owners	Risk Analysts	School Administrators	Volunteers/General Public
FEMA E-74	•	•	•	•	•	•	•	•	•	•	•	
FEMA 232	•	•	•		•		•		•			
FEMA 395							•	•			•	
FEMA P-50 & FEMA P-50-1	•	•	•	•	•		•		•			
FEMA P-154 & ATC-20	•	•	•			•	•	•	•			•
FEMA P-154 & ROVER	•	•	•			•	•	•	•	•		•
FEMA P-154, ATC-20, & ROVER	•	•	•			•	•	•	•	•		•
FEMA P-749	•	•					•	•				
FEMA P-767	•	•	•			•	•	•		•		
FEMA P-909			•	•	•	•			•			•
FEMA P-1000	•	•				•	•	•			•	•
FEMA P-1024	•	•	•	•	•		•		•		•	
FEMA P-2018		•					•					
FEMA P-2055	•	•				•	•					
FEMA P-2055 & ATC-20	•	•				•	•					
Building Code Overview	•	•	•	•	•	•	•	•	•	•	•	•
Classroom and Beyond	•	•			•	•		•			•	•
Manufactured Homes	•	•			•	•	•	•	•			•

Table 3 provides recommendations for pairing of courses by theme. There is no requirement to group these trainings together, with the exception of ATC-20 (which is only offered in combination with FEMA P-154 or FEMA P-2055).

**Table 3 Recommended Pairings of NETAP Courses**

Theme	Course A	Course B	Course C
Basic principles of earthquake-resistant codes & design	Building Code Overview, <i>Why Building Codes Matter</i>	FEMA P-749, <i>Earthquake-Resistant Design Concepts</i>	
Understanding how different building types perform in earthquakes	FEMA P-154, <i>Rapid Visual Building Screening</i>	ATC-20, <i>Postearthquake Building Safety Evaluation</i>	
Identifying structural and nonstructural earthquake hazards	FEMA P-154, <i>Rapid Visual Building Screening</i>	FEMA E-74, <i>Reducing Nonstructural Earthquake Damage</i>	
Introduction to post-earthquake building damage assessment	FEMA P-2055, <i>Post-disaster Building Safety Evaluation Guidance</i>	ATC-20, <i>Postearthquake Building Safety Evaluation</i>	
Making schools safer in earthquakes	Reducing Earthquake Risk in the Classroom and Beyond	FEMA P-1000, <i>Improving School Natural Hazard Safety</i>	FEMA 395, <i>Safety &amp; Mitigation for Schools</i>
Making hospitals safer in earthquakes	FEMA P-767, <i>Earthquake Mitigation for Hospitals</i>	FEMA E-74, <i>Reducing Nonstructural Earthquake Damage</i>	
Earthquake-resistant wood-frame design and retrofit	FEMA 232, <i>Homebuilders' Guide</i>	FEMA P-50 & P-50-1, <i>Simplified Seismic Assessment &amp; Retrofit</i>	
Retrofitting single-family residences	FEMA P-50 & P-50-1, <i>Simplified Seismic Assessment &amp; Retrofit</i>	FEMA P-1024, <i>South Napa 2014 Earthquake, + Chimney/Cripple Wall Retrofit</i>	FEMA P-909, <i>Home &amp; Business Earthquake Safety and Mitigation</i>

## DESCRIPTION OF NETAP COURSES

### **FEMA E-74, Reducing the Risks of Nonstructural Earthquake Damage**

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The training on FEMA E-74, *Reducing the Risks of Nonstructural Earthquake Damage*, describes the sources of nonstructural earthquake damage and effective methods of reducing such damage. Nonstructural failures have accounted for the majority of damage in recent U.S. earthquakes. It is critical to raise awareness of potential nonstructural hazards, the costly consequences of nonstructural failures, and the opportunities that exist to limit future losses.

Nonstructural components of buildings include all elements that are not part of the structural system; that is, the architectural, mechanical, electrical, and plumbing systems, as well as furniture, fixtures, equipment, and other contents.

*Materials:* The FEMA E-74 document is available as a free PDF at [this link](#). For in-person trainings only, a CD with a copy of the report is provided to each participant.

### **FEMA 232, Homebuilders' Guide to Earthquake Resistant Design and Construction**

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The training on FEMA 232, *Homebuilders' Guide to Earthquake Resistant Design and Construction*, presents seismic design and construction guidance for one- and two-family light-frame residential structures, including information that supplements the 2003 edition of the *International Residential Code*. The FEMA 232 report may be used by homebuilders and other non-engineers.

*Materials:* The FEMA 232 document is available as a free PDF at [this link](#). For in-person trainings only, a printed copy of the report is provided to each participant.

### **FEMA 395, Earthquake Safety and Mitigation for Schools**

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The training on FEMA 395, *Earthquake Safety and Mitigation for Schools (K-12): Providing Protection to People and Buildings*, is for school officials, teachers, facility managers, and other stakeholders interested in reducing earthquake risks in local schools. Numerous school buildings located in multiple states and U.S. territories are vulnerable to earthquake damage that threatens safety and continued operations. In this training, participants learn how to: (1) assess and analyze seismic risks; (2) develop actionable plans for reducing and managing these risks; (3) secure nonstructural elements of school facilities; and (4) use “incremental seismic rehabilitation” as an affordable approach for protecting existing buildings and ensuring occupant safety.

*Materials:* The FEMA 395 document is available as a free PDF at [this link](#). For in-person trainings only, a printed copy of the report is provided to each participant.

## **FEMA P-50 and FEMA P-50-1, Simplified Seismic Assessment and Retrofit Guidelines of Detached, Single-Family, Wood-Frame Dwellings**

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The training on FEMA P-50, *Simplified Seismic Assessment of Detached, Single-Family, Wood-Frame Dwellings*, provides instruction on inspection procedures and use of a four-page Simplified Seismic Assessment Form to evaluate detached single-family wood-frame dwellings and to assign to each a seismic performance grade. The procedure takes into consideration the potential for damage or collapse in a manner that is consistent and useful to owners, purchasers, insurers, lenders, contractors, design professionals, and regulatory officials. The training on FEMA P-50-1, *Seismic Retrofit Guidelines for Single-Family, Wood-Frame Dwellings*, provides specific guidance for retrofitting a dwelling's seismic deficiencies, as identified using the FEMA P-50 procedure.

*Materials:* The FEMA P-50/50-1 documents are available as free PDFs at the following links: [FEMA P-50](#), [FEMA P-50-1](#). For in-person trainings only, printed copies of the reports are provided to each participant.

## **FEMA P-154, Rapid Visual Screening of Buildings for Potential Seismic Hazards**

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In this training, participants learn how to identify potentially hazardous buildings before earthquakes occur, according to the methodology set forth in FEMA P-154, *Rapid Visual Screening of Buildings for Potential Seismic Hazards*. The training covers methods and processes that enable personnel to rapidly screen buildings for their expected safety and usability during and after earthquakes. Local officials can use these data to plan and prioritize further engineering and vulnerability analysis, emergency-response needs, and mitigation projects. The Third Edition of the document was completed in January 2015 and includes an additional level of screening form, as well as many other enhancements.

*Materials:* The FEMA P-154/P-155 documents are available as free PDFs at the following links: [FEMA P-154](#), [FEMA P-155](#). For in-person trainings only, a printed copy of the FEMA P-154 report is provided to each participant. Upon request, a printed copy of the FEMA P-155 report (*Supporting Documentation*) is provided to each participant.

## **ATC-20, Postearthquake Safety Evaluation of Buildings**

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**\*Only available in conjunction with FEMA P-154 or FEMA P-2055\***

In this training, participants learn how to evaluate the safety of buildings following earthquakes. Trainees learn how to perform seismic inspections and safety evaluations of buildings, and to post appropriate safety-status placards. These evaluations and placards can be used in planning and executing evacuation, re-entry, and rebuilding strategies. Under NETAP, ATC-20 training can only be obtained if conducted in conjunction with FEMA P-154 or FEMA P-2055.

*Materials:* For both in-person trainings and web-based trainings, a printed copy of ATC-20-1, *Field Manual: Postearthquake Safety Evaluation of Buildings*, is provided to each participant.

Additional copies of ATC-20-1 (only available in hard copy) may be ordered using [this link](#).

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## Rapid Observation of Vulnerability and Estimation of Risk (ROVER)

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### **\*Only available in conjunction with FEMA P-154 in-person training\***

In this course, participants learn how to utilize *Rapid Observation of Vulnerability and Estimation of Risk* (ROVER). ROVER is open-source software that automates the paper-based screening procedures documented in the Second Edition of FEMA 154, *Rapid Visual Screening of Buildings for Potential Seismic Hazards*, published in 2002. Building-specific data are entered into ROVER in the field via smartphones or other devices that have GPS capability, and the data are aggregated in a PC-based server. ROVER includes many productivity-enhancing features, such as automated geolocation, integrated digital photography and sketching capabilities, and automated retrieval of site-specific soil and hazard data from U.S. Geological Survey maps.

*Note:* ROVER is only available as an in-person training.

*Materials:* Information about ROVER can be reviewed at no cost at the following link: <http://roverready.org/>. For in-person trainings, the ROVER CD, *Rapid Observation of Vulnerability and Estimation of Risk* software, is provided to each participant.

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## FEMA P-749, Earthquake-Resistant Design Concepts: An Introduction to the NEHRP Recommended Seismic Provisions for New Buildings and Other Structures

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Training on the FEMA P-749 report, *Earthquake-Resistant Design Concepts: An Introduction to the NEHRP Recommended Seismic Provisions for New Buildings and Other Structures* (a companion guide to the 2009 edition of FEMA P-750, *NEHRP Recommended Seismic Provisions for New Buildings and Other Structures*), has been designed to encourage design and construction practices that address earthquake hazard and minimize the resulting risk to life and property. Understanding the basis for the seismic regulations in the nation's building codes and standards is important to those outside the earthquake science and engineering community, including elected officials, decision makers in the insurance and financial communities, individual building or business owners, and other concerned citizens. The intent of this training is to provide interested individuals with an easily understandable explanation of the intent and requirements of seismic design in general and the *NEHRP Provisions* in particular.

*Materials:* The FEMA P-749 document is available as a free PDF at [this link](#). For in-person trainings only, a printed copy of the report is provided to each participant.

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## FEMA P-767, Earthquake Mitigation for Hospitals

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The FEMA P-767, *Earthquake Mitigation for Hospitals*, training introduces participants to earthquake hazards in healthcare settings and methods that can be used to analyze and reduce risks of damage in hospitals and other medical buildings. Such facilities have unique nonstructural components, including equipment and infrastructure systems that can become sources of injury or damage even during smaller earthquakes. By implementing sound, cost-effective mitigation measures, healthcare facilities can reduce seismic risks and ensure that, in the event of an earthquake, they can remain in operation to serve their communities.

*Materials:* The referenced documents are available as free PDFs at the following links:

- [FEMA 396](#), *Incremental Seismic Rehabilitation of Hospital Buildings*
- [FEMA E-74](#), *Reducing the Risks of Nonstructural Earthquake Damage*

For in-person trainings only, a CD with the FEMA E-74 report, a CD with the FEMA P-767 training PowerPoint presentation, and a printed copy of the FEMA 396 report are provided.

### **FEMA P-909, Home and Business Earthquake Safety and Mitigation: A “Train the Trainer” Course**

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The goal of the training on FEMA P-909, *Home and Business Earthquake Safety: A “Train the Trainer” Course*, is to create a cadre of trainers with the ability to provide citizens with basic knowledge on earthquakes and simple steps toward safety and mitigation in their homes and businesses with the goal to reduce the loss of life and property from an earthquake. This training includes a demonstration how to mitigate the seismic risk of a component, such as a water heater.

*Note:* FEMA P-909 is only available as an in-person training.

*Materials:* For the in-person training, a CD with the FEMA P-909 training PowerPoint presentation is provided to each participant.

### **FEMA P-1000, Safer, Stronger, Smarter: A Guide to Improving School Natural Hazard Safety**

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This training on FEMA P-1000, *Safer, Stronger, Smarter: A Guide to Improving School Natural Hazard Safety*, provides guidance on school operations (i.e., what to do before, during, and after an event) and on the physical protection of school facilities (i.e., what can be done to the structure and facility to improve safety). The training also includes some discussion of the FEMA P-1000 supplements, which provide guidance specific to earthquakes, floods, hurricanes, tornadoes, and tsunamis.

*Materials:* The FEMA P-1000 document is available as a free PDF at [this link](#). For in-person trainings only, a printed copy of the report is provided to each participant

### **FEMA P-1024, Performance of Buildings and Nonstructural Components in the 2014 South Napa Earthquake, and FEMA South Napa Earthquake Recovery Advisories**

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This training gives an overview of the FEMA P-1024, *Performance of Buildings and Nonstructural Components in the 2014 South Napa Earthquake*, report that assesses and documents the performance of a population of buildings impacted by the South Napa earthquake and provides a series of recommendations to improve mitigation. The training also includes an overview of the accompanying FEMA South Napa Earthquake Advisories: (1) FEMA P-1024-RA1, *South Napa Earthquake Recovery Advisory: Repair of Earthquake-Damaged Masonry Fireplace Chimneys*, which recommends best practices for the reconstruction of earthquake-damaged masonry chimneys in one- and two-family dwellings to minimize risk of damage in future earthquakes; and (2) FEMA P-1024-RA2, *South Napa Earthquake Recovery Advisory: Earthquake Strengthening of Cripple Walls in Wood-Frame Dwellings*, which addresses the earthquake strengthening of cripple walls and foundation anchorage in one- and two-family dwellings supported by elevated concrete foundation systems and cripple walls not taller than approximately seven feet.

*Materials:* The FEMA P-1024 documents are available as free PDFs at the following links:

- [FEMA P-1024](#), *Performance of Buildings and Nonstructural Components in the 2014 South Napa Earthquake*:
- [FEMA P-1024-RA1](#), *South Napa Earthquake Recovery Advisory: Repair of Earthquake-Damaged Masonry Fireplace Chimneys*
- [FEMA P-1024-RA2](#), *South Napa Earthquake Recovery Advisory: Earthquake Strengthening of Cripple Walls in Wood-Frame Dwellings*

For in-person trainings only, printed copies of the reports are provided to each participant.

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## **FEMA P-2018, Seismic Evaluation of Older Concrete Buildings for Collapse Potential**

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### **\* New course in 2021\***

This training on FEMA P-2018, *Seismic Evaluation of Older Concrete Buildings for Collapse Potential*, provides an overview of an evaluation methodology, suitable for use by structural and civil engineers, that can be used to identify and prioritize the most seismically hazardous non-ductile concrete buildings in an inventory of buildings. The method is easier and less expensive to apply than other available evaluation and retrofit methodologies, such the detailed analysis procedures of ASCE/SEI 41-17, *Seismic Evaluation and Retrofit of Existing Buildings*.

A wide variety of concrete buildings exist in regions of significant seismicity in the United States, and many were constructed prior to the enactment of modern seismic provisions in building codes. Known as non-ductile concrete buildings, these buildings were constructed prior to the late-1970s, and include archaic construction dating back to the early 1900s. Problematic issues include inadequate steel reinforcing details, system irregularities, and element discontinuities that can result in sudden failure and loss of vertical load-carrying ability. Large earthquakes have demonstrated the seismic vulnerability of these older, concrete buildings, but not all such buildings are at risk of global collapse.

*Materials:* The FEMA P-2018 document is available as a free PDF at [this link](#).

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## **FEMA P-2055, Post-disaster Building Safety Evaluation Guidance: Report on the Current State of Practice, including Recommendations Related to Structural and Nonstructural Safety and Habitability**

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### **\* New course in 2021\***

This training on FEMA P-2055, *Post-disaster Building Safety Evaluation Guidance*, provides an overview of existing procedures for post-disaster building safety evaluations and issues related to structural safety and habitability. Guidance is also presented on planning, managing, and implementing safety evaluation programs before and after a disaster incident.

In late 2018, Congress directed FEMA to develop and publish guidance, including best practices, for the post-disaster safety assessment of buildings by licensed architects and engineers to ensure that design professionals properly analyze the structural integrity and livability of buildings and structures following disasters. The final report, FEMA P-2055, covers current state of practice, including recommendations related to structural safety and habitability. This report serves as a comprehensive review of all facets of post-disaster safety evaluations, covering deployment management, secondary hazard events, requirements for health of occupants, and discussions on interim postdisaster use of buildings.

*Materials:* The FEMA P-2055 document is available as free PDFs at [this link](#). For in-person trainings only, a printed copy of the report is provided to each participant.

## **Building Code Overview, Building Codes – Why They Matter**

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Building codes are regulations governing design, construction, alteration, and maintenance of structures. They are the foundation for community resilience. This training provides an overview of the building code pertaining to earthquake effects on buildings and underline the importance of code adoption and enforcement. This training also highlights why this information is important to emergency managers, decision makers, and the general public.

*Materials:* Presentation slides (PDF format) are provided to participants.

## **Reducing Earthquake Risk in the Classroom and Beyond: *Seismic Mitigation of Nonstructural Hazards in Schools***

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### ***\* New course in 2021\****

This training, intended for facility managers, K-12 school administrators, and teachers, teaches participants about the most common earthquake hazards in K-12 schools and empowers them to mitigate these issues. The objectives of the training are to: (1) understand what nonstructural components are and why they matter in earthquakes; (2) learn how to recognize and identify common nonstructural hazards in K-12 schools; and (3) review strategies for mitigating common hazards, including understanding when an engineer/technical consultant should be engaged.

*Materials:* Presentation slides (PDF format) are provided to participants.

## **Improving Earthquake Performance of Manufactured Homes**

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Recent earthquakes have resulted in poor performance of manufactured homes, indicating that there is much room for improvement. The purpose of this training is to: (1) provide an overview of regulations governing design and construction of manufactured homes and home installation; (2) review relevant performance issues observed in recent earthquakes; and (3) provide available guidance for improved earthquake performance of manufactured homes.

*Materials:* Presentation slides (PDF format) are provided to participants.