



FEMA

Josephine County Emergency Management

FEMA P-909, *Home and Business Earthquake Safety and Mitigation, and*

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

TRAINING DESCRIPTION

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. During the recent earthquakes in Napa (California), Chile, New Zealand, Japan, Virginia and other earlier earthquakes in California, Washington, and other parts of the United States, nonstructural failures have accounted for the majority of damage and injuries. In many cases, businesses, schools, hospitals, and other organizations had to spend excessive time and dollars for clean-up and repair due to nonstructural failures; therefore impeding continued operations and rapid recovery. Moreover, nonstructural component failures also impeded safe evacuation, delayed rescue, and caused additional hazards such as fire resulting in serious life safety issues.

This training will first provide an overview of mitigation strategies for nonstructural components along with hands-on demonstrations (FEMA P-909) and conclude with a more in-depth look at nonstructural earthquake risks and strategies for reducing these risks. (FEMA E-74).

The FEMA P-909, *Home and Business Earthquake Safety Mitigation: A "Train the Trainer" Course*, training provides basic knowledge on earthquakes and simple steps toward safety and mitigation in homes and business with the goal of reducing the loss of life and property damage from an earthquake. This course



This training is supported by National Earthquake Hazards Reduction Program (NEHRP) National Earthquake Technical Assistance Program (NETAP). For more information visit:
<http://www.fema.gov/earthquake-training/national-earthquake-technical-assistance-program>

includes a hands-on demonstration of how to mitigate the risk of a component, such as a water heater.

The FEMA E-74, *Reducing the Risks of Nonstructural Earthquake Damage*, training is based on the e-document of the same name (available at: <https://www.fema.gov/fema-e-74-reducing-risks-nonstructural-earthquake-damage>), and describes the sources and types of nonstructural earthquake damage and provides participants with effective methods and guidance to reduce their risk from nonstructural elements in order to minimize injuries and property losses from future earthquakes.

TARGET AUDIENCE

The target audience for the FEMA P-909 training includes home/property owners, building owners, small business owners, emergency managers, and the general public. The target audience for the FEMA E-74 training includes property owners, facility managers, local officials, engineers, architects, small businesses, and emergency managers.

The listed target audience is not meant to limit participation, but is provided for guidance purposes only.

RECOMMENDED PREREQUISITE

Prior to this training, it is recommended to view a 30-minute independent study training, IS-325, *Earthquake Basics: Science, Risk, and Mitigation*. The IS-325 training provides basic information on earthquake, its impacts, and general mitigation techniques. The training may be viewed at the following link: <http://training.fema.gov/EMIWeb/IS/courseOverview.aspx?code=is-325>

GENERAL INFORMATION

Time: 8:00 AM to 5:00 PM
Date: July 14, 2016
Location: Josephine County Search & Rescue, 250 Tech Way, Grants Pass OR 97526
Instructor: Edwin T. Huston, P.E., S.E., Vice President, Smith & Huston, Inc., Consulting Engineers
Materials: FEMA P-909 CD, *Home and Business Earthquake Safety and Mitigation: A “Train the Trainer” Course*; and FEMA E-74 CD, *Reducing the Risks of Nonstructural Earthquake Damage*. This report can also be downloaded from the following link: <https://www.fema.gov/media-library/assets/documents/21405?id=4626>

REGISTRATION

To register for these trainings, please provide your name, organization, address, phone number, and e-mail address to althea.rizzo@state.or.us. For questions or additional information, please contact 503-378-2911.