

FEMA 154 Rapid Visual Screening of Buildings for Potential Seismic Hazards, ATC 20 Postearthquake Safety Evaluation of Buildings and Rapid Observation of Vulnerability and Estimation of Risk (ROVER)

COURSE DESCRIPTION:

FEMA 154, *Rapid Visual Screening of Buildings for Potential Seismic Hazards*, provides training on how to identify potentially hazardous buildings before earthquakes occur. The course covers methods and processes that enable personnel to rapidly identify, inventory, and rank local buildings according to 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.

ATC 20, *Postearthquake Safety Evaluation of Buildings*, provides training on rapid and detailed evaluation procedures for evaluating earthquake-damaged buildings and posting them as INSPECTED (apparently safe, green placard), LIMITED ENTRY (yellow placard), or UNSAFE (red placard). It provides examples which allow attendees to evaluate building damage conditions, assess the overall risk from the damage, and recommend which of the three placards should be posted on the building.

Rapid Observation of Vulnerability and Estimation of Risk (ROVER) is software that automates the paper-based screening procedures taught in FEMA 154 and ATC-20. Building-specific data are entered into ROVER in the field via smartphones and GPS devices, and are aggregated in a PC-based data server. ROVER features include automated geolocation, integrated digital photography and sketching capabilities, and automated retrieval of site-specific soil and hazard data from USGS maps.

TARGET AUDIENCE: Building officials, engineers, architects, building owners, emergency managers, risk analysts, and other interested citizens and volunteers.

DATE: October 28-29, 2014
TIME: 9:00 am – 3:00 pm each day.
LOCATION: OK State University Center for Health Sciences
Room D107
1111 West 17th St.
Tulsa, OK 74107

Point of Contact: Bonnie McKelvey, bonnie.mckelvey@oem.ok.gov

AGENDA:

FEMA 154

- Introduction
- Planning and Managing Rapid Visual Screening
- Completing the Data Collection Form
- Using the RVS Procedure Results
- Example Application of Rapid Visual Screening

ATC 20

- Introduction to ATC 20 Methodology
- Posting System
- Evaluation Procedures
- Structural Basics
- Wood Frame Structures
- Masonry Structures
- Concrete Structures
- Steel Frame Structures
- Nonstructural Elements
- Geotechnical Hazards
- Other Hazards--Wind and Flood
- Hazardous Materials
- Field Safety

ROVER Training

Instructor: *Michael J. Griffin, P.E.*

To register for this training go the following link:

https://www.ok.gov/triton/modules/formbuilder/form.php?form_id=340d540f78d4f4c0e45a3369057548b1ab71e4323489d6d318fad9614328eac2