

# ATC 20 Post Earthquake Safety Evaluation of Buildings



August 19, 2010  
Little Rock, Arkansas



Sponsored by  
**Arkansas Department of Emergency  
Management**

Instructed by  
**Steve Sharp, P.E.**  
Arkansas Electric Cooperative Corp.

## About ATC 20

When earthquake disaster strikes a community, there is an immediate need for damage inspections throughout the affected areas. People need to be kept from using unsafe buildings, and safe shelter must be provided for those left homeless. It is essential that qualified building inspectors quickly identify structures that are safe for re-entry and those that must be avoided. Regular building inspection officials may become overloaded instantly and require additional help.

Under such emergency conditions, qualified volunteer inspectors, including architects, engineers, and building inspectors are needed from unaffected regions and certain other qualified design and construction professionals can provide help with the post earthquake safety evaluations. These volunteers will typically be activated through a pre-existing agreement with state and local emergency management officials.

Attendees of this course will receive inspector qualification training, experience to become a team member for inspecting earthquake damaged buildings, and a field manual to guide their future work. A panel of earthquake and structural experts and building officials has approved all training materials used in this course. During the course, procedures and documents are presented which promote uniformity in the rating of building damages so that different individuals examining the same building will arrive at the same conclusion about its relative safety.

---

---

## Who Should Attend

Architects, professional engineers, building inspectors or skilled construction industry personnel with at least 5 years of verifiable general building design, construction, or inspection experience that are willing to volunteer as building inspectors after a disaster.

---

---

## Co-Sponsored by:



**FEMA**



**Central U.S.  
Earthquake Consortium**



**Arkansas Electric  
Cooperative Corp.**



**Arkansas Section**

---

---

## Course Outline

---

---

This course will be instructed in a classroom style setting, although student interaction is welcomed and encouraged. Some of the topics that will be covered in the course are -

Earthquake 101 Review  
Structural Basics  
Steel Frame Structures  
Concrete Structures  
Wood Frame Structures  
Masonry Structures  
Non-Structural Hazards  
Evaluation of Structures  
Hazardous Materials & Field Safety  
Discussion / Questions

---

---

Certificates of completion will be offered at the end of the course. Professional Development Hours will be offered to participants who are interested.

### REGISTRATION FEES

There is no charge for this workshop. Materials are provided and include the ATC20-1 Field Manual for Inspectors.

---

---

## Registration Information

Please pre-register for this course. Participant space is limited, and openings are on a first come, first serve basis. Please complete the online registration by August 9, 2010. <http://www.register.cusec.org>.

### COURSE LOCATION

AR Electric Cooperative  
1 Cooperative Way  
Little Rock, AR 72209  
(501) 570-2200  
Board Room

### COURSE INFORMATION

Course will begin at 8:00 a.m. and end at 4:00 p.m. Lunch is being provided free of charge to course participants. If you need directions to the course location, please call the number listed above.

### SUGGESTED LOCAL HOTEL

Wingate by Wyndham- Little Rock  
1212 South Shackleford Road  
Little Rock, AR 72211  
Phone: (501) 227-6800  
Fax: (501) 227-6819  
Please call ahead for rates & availability (ask for AR Electric Cooperatives rate).

## FOR MORE INFORMATION

Myra Jane Biggers  
Earthquake Program Manager  
Arkansas Dept. of Emergency Management  
Phone: (870) 935-8528  
Email: [myra.biggers@adem.arkansas.gov](mailto:myra.biggers@adem.arkansas.gov)

or

Mr. Steve Sharp  
Principal Engineer  
Arkansas Electric Cooperative Corp.  
Phone: (501) 570-2467  
Email: [ssharp@aecc.com](mailto:ssharp@aecc.com)

Special thanks to the Arkansas Electric Cooperative, the Arkansas Section of ASCE and the Arkansas Geological Survey for their support in this training effort.

