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Continuing Education Course #148
Seismic and Wind
Information HVAC Engineers Should Know

1. The NEHRP agencies has established an overarching, long-term strategic goal to _____.
 - a. Improve understanding of earthquake processes and impacts.
 - b. Develop cost-effective measures to reduce earthquake impacts on individuals, the built environment, and society-at-large.
 - c. Improve the earthquake resilience of communities nationwide.
 - d. All of the above
2. The building owner, in contract with the installing mechanical contractor, must ensure that the load path of all equipment mounted on and in the building is transferred to the structure such that these components will not cause damage to the building if they were forced off of their mountings.
 - a. True
 - b. False
3. According to the IBC, when _____ deems a product as a designated seismic system component, then the manufacturer must supply a certificate of compliance stating that the equipment will meet the applicable seismic design criteria for that project.
 - a. a facility owner
 - b. an MEP engineer
 - c. a code official
 - d. a contractor
4. The code puts the liability squarely on the _____ to employ an inspector during construction.
 - a. “the installing contractor”
 - b. “authority having jurisdiction”
 - c. “registered design professional in responsible charge”
 - d. “the facility owner”
5. The Occupancy Categories are the starting point to establishing the I_p and then the system within the building determines if the I_p should be _____, the only two values for this factor.
 - a. 1.50 or 1.00
 - b. 2.00 or 1.50
 - c. 1.75 or 1.25
 - d. 2.50 or 1.75
6. It doesn't matter if the AHJ enforces this or not, the engineer is responsible to ensure this occurs as the code assigns this responsibility to the engineer.
 - a. True
 - b. False
7. The _____ has developed Wind Zone maps for the USA.

- a. American Institute of Architects
- b. American Society of Heating Refrigeration and Air conditioning Engineers
- c. Department of Energy
- d. Federal Emergency Management Agency

8. AMCA Publication 511 has a section for “Wind-Driven Rain Test” which tests and gives louvers a rating for both Effectiveness Ratio of water blown through the louver and a Class rating for specifications at both _____.

- a. 29 MPH wind velocity with 3” Per Hour and 50 MPH wind with 8” Per Hour of rain
- b. 19 MPH wind velocity with 4” Per Hour and 50 MPH wind with 10” Per Hour of rain
- c. 29 MPH wind velocity with 3” Per Hour and 75 MPH wind with 10” Per Hour of rain
- d. 19 MPH wind velocity with 4” Per Hour and 60 MPH wind with 8” Per Hour of rain

9. A seismic restraint will never function as an isolator also.

- a. True
- b. False

10. To minimize risk and liability, _____ need to clearly understand their roles and responsibilities as defined in chapters 16 and 17 of the IBC code.

- a. equipment manufacturers
- b. suppliers
- c. design professionals and contractors
- d. all of the above

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