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Introduction

Emergency Action Plans (EAP) are required by the Occupational Safety and Health Administration (OSHA) to keep employees safe in the event of an emergency. EAPs at universities are meant for students, faculty and staff to use as a guide to prepare them for before, and during, an emergency. The minimum requirements are outlined in Regulations (Standards 29 CFR) Subpart E PART 1910.38. 1910.38(c) include procedures:

- (1) for reporting a fire or other emergency;
- (2) for emergency evacuation, including type of evacuation and exit route assignments;
- (3) to be followed by employees who remain to operate critical plant operations before they evacuate;
- (4) to account for all employees after evacuation;
- (5) to be followed by employees performing rescue or medical duties; and
- (6) the name or job title of every employee who may be contacted by employees who need more information about the plan or an explanation of duties under the plan.

OSHA also makes recommendations to expand the scope for what an EAP should cover. Some examples of the recommended protocols include floods, hurricanes, tornadoes, fires, toxic gas releases, chemical spills, radiological accidents, explosions, civil disturbances, and workplace violence resulting in bodily harm and trauma. More specialized protocols may be in place for regional or functional necessity such as train derailment and localized weather.

Methods

A systematic review of EAPs was conducted with 32 universities selected based on similar student enrollment. While 50 universities were originally selected, 18 were removed due to inaccessibility of the EAP on the university web page, password protected information, or ambiguity of the document. Each of the 32 university EAPs were assessed for adherence to the OSHA requirements. Universities were determined to have met the minimum requirements if they followed OSHA regulations as listed in Regulations (Standards 29 CFR) Subpart E PART 1910.38. Protocols had to be clear and elaborative to count. Variables were determined by using the emergencies listed on the OSHA EAP guide as well as elements included in the University of Kentucky EAP for comparison.

Elements of a EAP that were searched for were protocols for fire, severe weather, hazardous materials, utility outages, earthquakes, active shooters, bomb threats, medical emergencies, psychological emergencies/civil disturbance, evacuation of disabled individuals as well as features such as list of emergency numbers (Other than 911), evacuation routes/floor plans, shelter locations, and bomb threat checklists.

Police Department University Emergency Action Plans

Results



Figure 1: Shows how many universities were compliant with each respective 1910.38(c) requirement









Sample

Boise State University **Brigham Young University** Indiana University Bloomington Louisiana State University Baton Rouge Michigan State University New York University Rutgers University South Dakota State University Texas A&M The Ohio State University University of Alaska Anchorage

- University of Arkansas University of California Los Angeles University of Central Florida University of Colorado Boulder University of Georgia University of Illinois University of Iowa University of Kansas University of Kentucky University of Maryland University of Minnesota University of Missouri
- University of Nebraska Lincoln University of Nevada Los Vegas University of New Hampshire University of North Dakota University of Oklahoma University of South Carolina University of Tennessee University of Wisconsin Madison University of Wyoming

Summary and Conclusion

Our findings revealed that 66% (n=21) universities met all 6 critical criteria. We also found that 81% (n=26) of EAPs had protocol for fires, 66% (n=21) for severe weather, 75% (n=24) for hazardous materials, 63% (n=20) for utility outages, 41% (n=13) for earthquakes, 59% (n=19) for active shooters, 56% (n=18) for bomb threats, 56% (n=18) for medical emergencies, 41% (n=13) for psychological emergency/civil disturbances and 63% (n=20) for evacuation of disabled individuals. Additionally, 56% (n=18) of EAPs had shelter locations, 44% (n=14) had floor plans, 47% (n=15) had bomb threat checklists, and 100% (n=32) had emergency numbers other than 911. Implications of this study can help guide universities to create more effectual and encompassing EAPs. Future research should examine whether the presence of a protocol in an EAP is likely to improve the outcome of an emergency.





