INT110-1.1 Lab: Answer the following lab questions. Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Explain the three categories of accident causal factors.
2. A utility company does the installation and maintenance of overhead electrical lines. Electrical workers are occasionally required to work in extreme weather conditions and where there are downed power lines. Assess the probability and severity for the following scenarios and in a few sentences explain your reasoning.

A. In the last 10 years, electrical workers have repaired downed power lines after 5 hurricanes, 8 tornadoes, and 17 snowstorms. There have been no fatalities. One worker experienced a serious injury when a utility pole fell on his leg. Other injuries have mostly been cuts, abrasions, strains, and sprains.

B. Last year, workers stopped work 10 times due to lightning in the area. No workers have been injured, but two hikers were nonfatally struck by lightning

C. In the injury trend for the past five years, there is an increase every year in the number of musculoskeletal injuries, mostly from awkward twists or shoulder strains. The average age of a competent worker is 49 years old. The average days lost is nine days.

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