

### **Safety Excellence Group's Problem Statement**

S.E.G.'s primary mission is to prevent workplace injuries through its services. As a result, analyzing data on past workplace injuries is crucial to understanding how S.E.G. can tailor its services to best help its clients.

Many SEG clients direct campaigns on hand injury prevention year after year, and an important source of data to understand how these occur is OSHA's Severe Injury Report, which has documented cases of severe workplace injuries in recent years. Your goal is to use this dataset to discover insights on hand-related injuries in the manufacturing industry (identified through NAICS) that reveal how most of these injuries occur.

Manipulate the dataset to tailor it to your solution. Analyze the data to identify how most hand injuries in manufacturing occur.

Bonus: Utilize AI and NLP techniques, such as LLMs or other methods, to analyze incident descriptions (found in Final Narrative) and extract keywords related to hand injuries. This should further reveal how these injuries occur.

Visualize insights on a dashboard to present to judges.

#### **Curveball:**

Identify unusual hand injury incidents in manufacturing, given your insights so far. Do any of these have the potential to grow in risk in the future?"