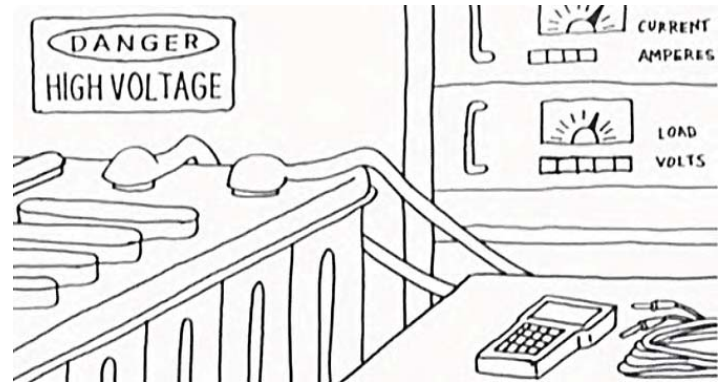


Forklift Case Study

Scenario

For this exercise, download UL 583, Standard for Safety Electric-Battery-Powered Industrial Trucks. This standard covers electric-battery-powered industrial trucks, such as tractors, platform-lift trucks, fork-lift trucks, and other vehicles designed for specific industrial uses, with respect to a risk of fire, electric shock, and explosion.



Research Questions

1. What does the ANSI/UL designation mean?
2. What standard defines Types E, ES, EE, and EX electric-battery-powered industrial trucks?
3. During a Dielectric Voltage Withstand Test, what would be the applied potential voltage when a circuit is rated for 80 volts?
4. How many samples are used for the standard atmosphere test? What is the duration of the test?
5. Explain why you would need to enclose a motor for a type EE truck.