

**Quiz, 9-11-2018**

**ELAP 1550-30**

**Your Name:**

1. What is the the area, in Circular Mils, and the direct current resistance for uncoated, CU, conductors, in ohm/kFT, for the following conductors?
  - a. #12 AWG:
  - b. 1/O AWG:
  - c. 300 kciml:
  
2. What's the definition of a continuous load? Also, what does "(CMP-2)" mean?
  
3. You are asked to install a 3 phase, 480 VAC, 15 kW immersion heater, in an oil tank. What is the minimum conductor size you can use?
  
4. The circuit mentioned above is going to be 500' long. Is the conductor size big enough to keep the voltage drop under 5%? What's the voltage drop, and the percent voltage drop?
  
5. What's described in the following quote?

"All circuit conductors between the service equipment, the source of a separately derived system, or other power supply source and the final branch-circuit overcurrent device."
  
6. What's a "separately derived system"?