






## Gray Electric

1. List standard wire colors for 120/208 volt 3 phase 4 wire:  
A. \_\_\_\_\_ B. \_\_\_\_\_ C. \_\_\_\_\_ N. \_\_\_\_\_
2. List standard wire colors for 277/480 volt 3 phase 4 wire:  
A. \_\_\_\_\_ B. \_\_\_\_\_ C. \_\_\_\_\_ N. \_\_\_\_\_
3. What color are the following circuit numbers for a 120/208 volt 3 phase system:  
#30 \_\_\_\_\_ #16 \_\_\_\_\_ #7 \_\_\_\_\_ #9 \_\_\_\_\_
4. What size THHN cu wire is required for 20 amp? \_\_\_\_\_  
What size THHN cu wire is required for 200 amp? \_\_\_\_\_  
What size THHN cu wire is required for 225 amp? \_\_\_\_\_  
What size THHN cu wire is required for 400 amp? \_\_\_\_\_
5. What is standard A.I.C. rating for 277/480 volt 3 phase 4 wire PG&E service? \_\_\_\_\_
6. What is the minimum clearance required in front of a 120/208 volt panel? \_\_\_\_\_
7. What section of N.E.C. covers grounding? \_\_\_\_\_
8. When is GFI protection required on the main service switch?  
\_\_\_\_\_
9. What is the formula for OHM's law? \_\_\_\_\_
10. When bending a 90degree - 1/2" EMT radius, what is the standard deduction when using the arrow?  
\_\_\_\_\_
11. When bending a 90 degree - 1/4 EMT radius, what is the standard deduction when using the arrow?  
\_\_\_\_\_
12. What is the maximum degree bends allowed between junction boxes? \_\_\_\_\_
13. How many amps does a 120 watt incandescent light draw at 120 volts? \_\_\_\_\_
14. How many #12 THHN wires can be installed in 1/2" EMT per NEC? \_\_\_\_\_
15. In a standard three phase starter, the stop button is in the normally open or normally closed position?  
\_\_\_\_\_
16. Identify the following drawing symbols:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
17. Position you are applying for: \_\_\_\_\_