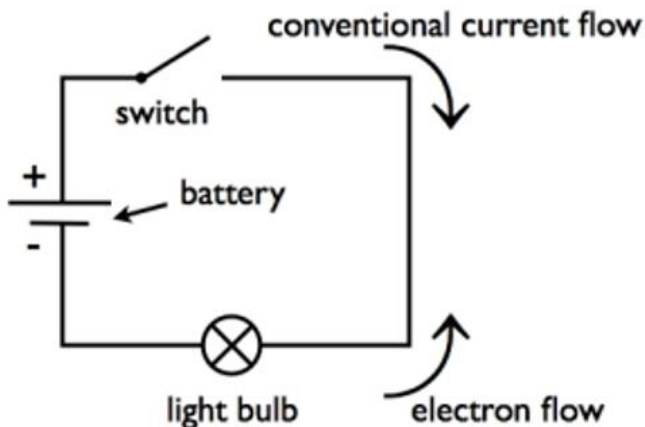


# ELECTRICAL DIAGRAMS

Performing electrical work requires the ability to read and interpret many different types of drawings and diagrams. Understanding circuit symbols and components is another one of the basic building blocks needed to become an electrician. If an electrician misinterprets a drawing or diagram when wiring a house, devices could be incorrectly installed or even missed altogether. Knowing how to properly take information from an electrical drawing or diagram and apply it to the real world is essential for electricians.

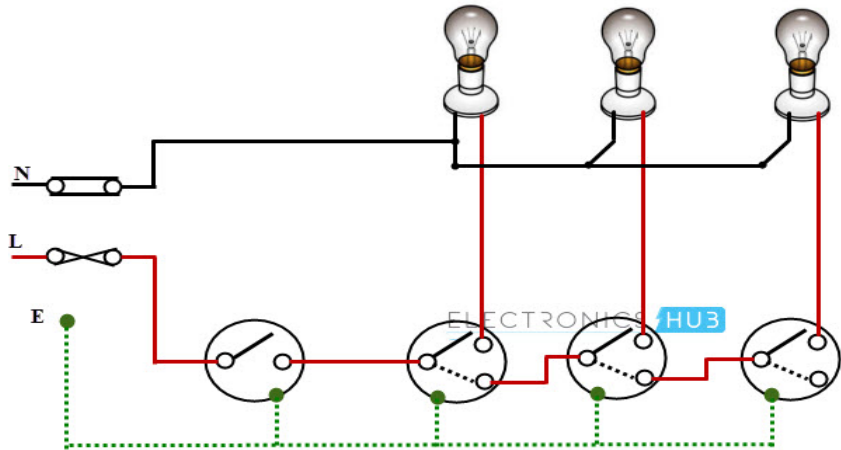
The following are the different types Diagram used in electrical:

1. **Schematic Diagram** - This diagram used basic electrical symbol to represent the electrical Devices in the circuit.



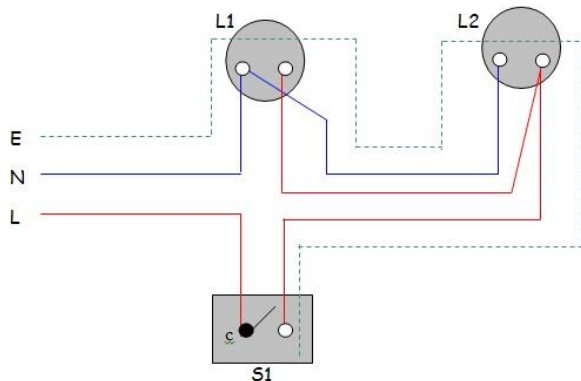
## ***Schematic Diagram of One bulb controlled by Single Pole Switch connected to a battery as voltage source***

2. **Actual Connection Diagram** - This diagram shows the actual connection of every electrical device in the circuit.



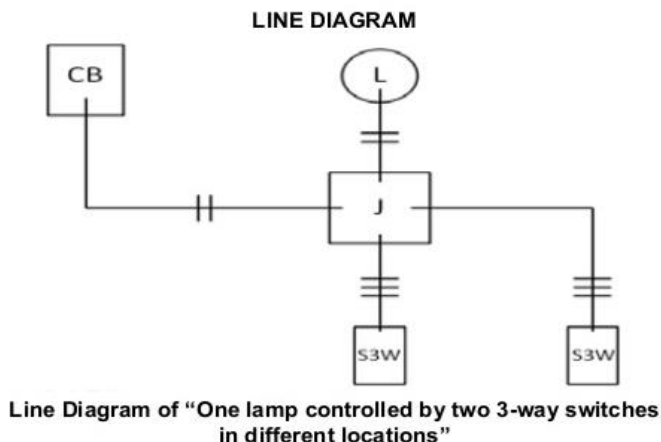
***Actual Connection Diagram of 3 bulbs in parallel connection controlled individually using (3) 3-way switch and one (1) Single pole switch as the main switch***

3. **Wiring Diagram** - This diagram focuses more on the direction and connection of each wire in the circuit.

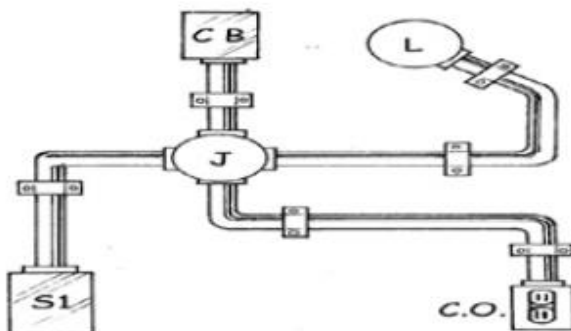


***Wiring Diagram of two (2) bulbs connected in series controlled in one location using one single pole switch.***

4. **Line Diagram** - This diagram gives details about the number of wires pass through the conduit pipe. Number of slashes in each line represents number of wires inside the conduit pipe. This diagram is best used in determining the total length of wire in a job.



5. **Pictorial Diagram** - This Diagram used an actual or realistic representation of devices of the entire circuit.



***Pictorial Diagram of One (1) bulb controlled by Single pole switch and One (1) convenience outlet***