

BACIS ELECTRICAL WIRING

ASSESSMENT 2

A. OBJECTIVES

Upon completion of this course, students should be able

- To construct single phase domestic wiring according to the Electricity Supply Act 1990, Electricity Regulation 1994 and MS IEC 60364 standard.

B. LAYOUT DIAGRAM:

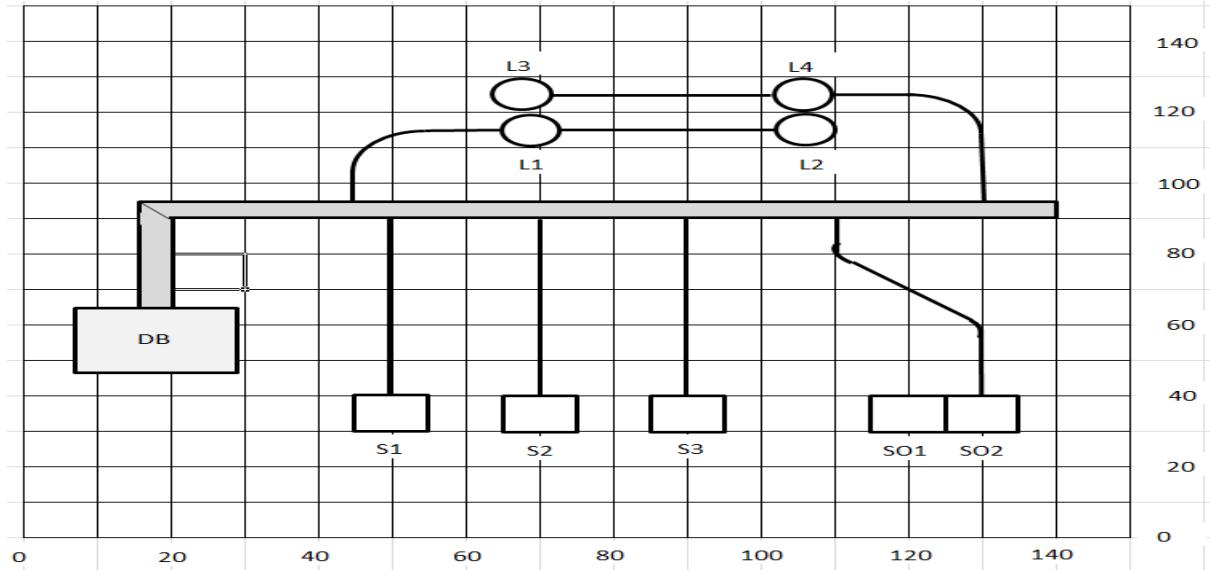


Figure 1: Layout Diagram

NOTE:

SO1, SO2	13 Amps Socket Outlet
S1	One Gang One Way Switch Control L1 and L2
S2, S3	One Gang Two Way Switch Control L3 and L4
L1, L2, L3, L4	Lamp Holder

C. MATERIAL / TOOL

ELECTRICAL TOOLS

1. Combination plier
2. Screwdriver
3. Side Cutter
4. PVC Cutter
5. Spring Bender
6. Measurement Tape
7. Pipe bender
8. Cordless Drill
9. Drill Bit
10. Gloves
11. Goggle

D. GENERAL INSTRUCTION

1. Ensure that all accessories and electrical tools are working properly.
2. Verify that each accessory is sufficient as listed.
3. Place the accessories and electrical tools in the designated area after use.
4. Turn off the switch of each appliance after use.

D. WORK INSTRUCTION / PROCEDURE

1. Recognize the function of the circuit according to the Electricity Supply Act 1990, Electricity Regulation 1994 and MS IEC 60364 standard .
2. Sketches the wiring diagram based on the layout diagram.
3. Measure the 2" by 2" PVC trunking, drill holes to the PVC trunking and do offset for socket outlet PVC pipe. Measure the pipe bender to bend the PVC conduit pipe for the lighting conduit pipe. Assemble the 2" by 2" PVC trunking and all the PVC pipe complete with the accessories according to the layout diagram.
4. By using the previous method, constructs the 2" by 2" PVC trunking, drill holes to the PVC trunking, and bend the PVC trunking to 90⁰ following the layout diagram. Constructs the PVC conduit pipe following the measurement given in the layout diagram. Builds the pipe bender to bend the PVC conduit pipe for the lighting layout.
5. Do the offset for the socket outlet PVC conduit pipe.
6. Fixes the PVC conduit pipe to the PVC trunking to form the layout diagram and screw it to the wiring bay.

WIRING DIAGRAM

Draw the wiring diagram according to the layout diagram.