

TITLE : CONDUIT WIRING FOR LIGHTING CIRCUIT

OBJECTIVES

1. Introducing the concepts and functions of one-way and two-way switch.
2. Practice conduit wiring.
3. Learn to do fixing and fitting of components and accessories in the final sub circuits.
4. Know how to carry out testing of electrical installation.

FINAL SUB-CIRCUITS 'LIGHTING CIRCUIT'

Two-way switch

This circuit is normally used to control one lighting point with more than one entrance such as the light at the building corridors, staircases or in the case of large rooms. It is made for controlling light points from more than one point. Figure 2 shows the wiring circuit diagram for lighting circuit control by two-way switches.

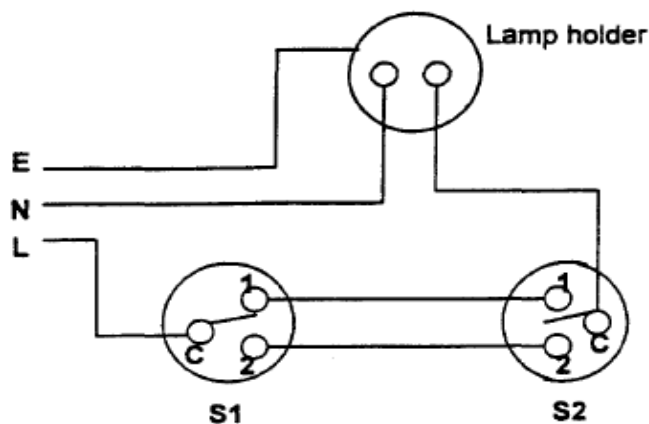


Figure 2

TOOLS AND COMPONENTS

Hand tools :

1. Hammer
2. Plier
3. Screw driver
4. Wire cutter
5. Wiring nails and screw
6. Plumbum clips
7. Multimeter

Components :

- 1 .2 units of two way switch
2. 2 units of lamp holder
3. Distribution fuse board (DFB)
4. 2.5 mm² cables (red, black, green)
5. Electric bulb.
6. 1 unit siling ros

PROCEDURE

1. Interpret the wiring circuit diagram shows in Figure 3 and visualize the layout to the work place.
2. Mark position of cable route. components and accessories.
3. Select tools needed and prepare conduits, conduit's junction, and conduit's clips. Layout the conduits and prepared for installation.
4. Read the wiring diagram and prepare cable and conduits pvc accessories.
5. Install accessories fixing blocks and terminate cables into the accessories
6. Perform visual inspection on the completed installation. Check and test the installation using appropriate meters.
7. Maintain all tools and equipments.