

# JOB ROLE – Cable Jointer Electrical Power System

Sector: Power  
(Qualification Pack Code : CON/Q1002)



PSS Central Institute of Vocational Education  
Shyamla Hills, Bhopal – 462013, Madhya Pradesh, India

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# **Unit 3: Electrical wiring components and accessories**

## **Session 2: ICTP and Distribution Board**

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# Session Objectives

1. The student will be able to understand different type of Main Switches
2. Understand series and parallel connection of lamps.

# ICTP (Iron Clad Triple Pole) Switch

The switches are used after energy meter to isolate the supply automatically or manually.



# Series and parallel connection

1. Series and parallel connection of lamp.

2. The effect of series and parallel connection of the circuits

- **Definition of the circuit** : When supply is run ,positive side of wire is connected to the negative side , like, lamp, heater, press then it is called circuit. It is like a electrical house.
- Types of circuit : 1. open 2. closed 3. series 4. parallel

**Series circuit** :- series circuits is like a stair case like a wire .In circuit  $r_1, r_2, r_3$  are resistances connected in series. so when many resistances are connected in series ,then it is called the series circuit.

**Parallel circuit** :- when various resistances are connected in parallel ,then it is called parallel circuit .Like if  $r_1$ ,  $r_2$  and  $r_3$  are connected in parallel.

## **Fixing wiring accessories on board**

Now you should be able to know the tools required for fixing the accessories on the board. You should know the purpose of fixing the accessories.

In house wiring the switches, holders and sockets are to be fixed on wooden/sun mica boards and blocks. Therefore, it is necessary to learn how to fix these accessories .

## Procedure :-

Adjust the electrical accessories, like, switch, holder, socket, etc. on the given board or round block. And then mark their positions by a pencil. Remove the covers of the accessories and loosen the screws of terminals. Make a powder of chalk and pour it in the holes of the terminal. Mark the point on them by the poker.

Now make the holes on the round block or board by the drilling machine where the points have been marked. Insert the wires in the terminal, after removing the insulation. Then fix all the accessories on the board or round block by Wooden screws after making holes on them by the poker. Then fix all covers on the accessories.



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