

Primary Topics for Competency 12

- Basic Electrical Drawings
- Basic Electrical Wiring Code
- Switches
- Receptacles
- Circuit Breakers / Breaker Boxes
- Meter Placement
- Electrical Symbolology

Terms to be defined or identified for Competency 12

- Receptacle
- Outlet
- Switch
- Spacing
- GFI – Ground Fault Interrupter
- Breaker
- 2-Way / 3-Way / 4-way Switches
- Ground
- Meter Base
- Meter Socket
- Duplex
- Triplex
- Main Power Panel
- Single Pole
- Double Pole
- Conduit
- Turndown
- Junction Box

Sample Questions

True and False

Receptacles in a bath must be GFI.

Exterior walls should be used as much as possible for outlets because of the ease of construction.

The maximum distance between outlets should 4" - 0".

Any wall over two feet in length should have an outlet.

Commercial projects tend to incorporate plans with dimensions and electrical applications together for convenience.

Which of the following requires 220/240 volt electrical current?

- a. Refrigerator
- b. Freezer
- c. Washing Machine
- d. Clothes Dryer

A single pole switch can control a light or group of lights from how many locations?

- a. 1
- b. 2
- c. 3
- d. 4

Controlling one light from 3 separate locations requires:

- a. 3 single-pole switches
- b. Two 3-way switches
- c. Two 3-way switches and a 4-way switch
- d. Such an arrangement is not possible

The meter base should be mounted so the meter socket is preferably:

- a. On the exterior of the house on the side of the garage
- b. On the exterior of the house on the back
- c. On the interior of the garage
- d. None of the above
- e. On the exterior of the house next to the entrance

A ground is an electrical connection to:

- a. The earth via a rod
- b. The meter
- c. The outlet
- d. The breaker

Identify the following electrical wiring symbol.

- a. Ceiling Outlet / Box
- b. Just a Circle
- c. Junction Box
- d. Ceiling Switch



Identify the following electrical wiring symbol.

- a. Ceiling Outlet / Box
- b. Fan Outlet
- c. Fire Alarm Outlet
- d. Free – Non Used Ceiling Outlet



Identify the following electrical wiring symbol.

- a. Wall Mounted Double Light
- b. Emergency Exit Light
- c. Duplex Outlet
- d. Telephone Outlet



Identify the following electrical wiring symbol.

- a. Main Power Panel
- b. Secondary Power Panel
- c. Telephone Box
- d. Lighting Panel



Identify the following electrical wiring symbol.

- a. Range Outlet
- b. Welder Outlet
- c. Air Conditioner Outlet
- d. Microwave Outlet



Professional Certification Review Manual
CERTIFIED DRAFTER
ARCHITECTURAL

COMPETENCY 12
Electrical

Identify the following electrical wiring symbol.

- a. Single Pole Switch
- b. Double Pole Switch
- c. Three Way Switch
- d. Key Operated Switch



Identify the following electrical wiring symbol.

- a. Single Pole Switch
- b. Double Pole Switch
- c. Three Way Switch
- d. Key Operated Switch



Identify the following electrical wiring symbol.

- a. Single Pole Switch
- b. Double Pole Switch
- c. Three Way Switch
- d. Key Operated Switch



Identify the following electrical wiring symbol.

- a. Switch Wire
- b. Dotted Line
- c. Hidden Line
- d. Electrical Conduit



Identify the following electrical wiring symbol.

- a. Lamp Post
- b. Power Pole
- c. Conduit with Turn Down
- d. Conduit with Turn Up



Identify the following electrical wiring symbol.

- a. Lamp Post
- b. Power Pole
- c. Conduit with Turn Down
- d. Conduit with Turn Up

