

PROGRAMME: ICP
CENTRE: Point Fortin
COURSE: ELECTRICAL INSTALLATION
LEVEL # 1
INSTRUCTOR: MASLYN VERNE MENDEZ
IDENTIFICATION OF ELECTRICAL FIXTURES AND FITTINGS

OBJECTIVES

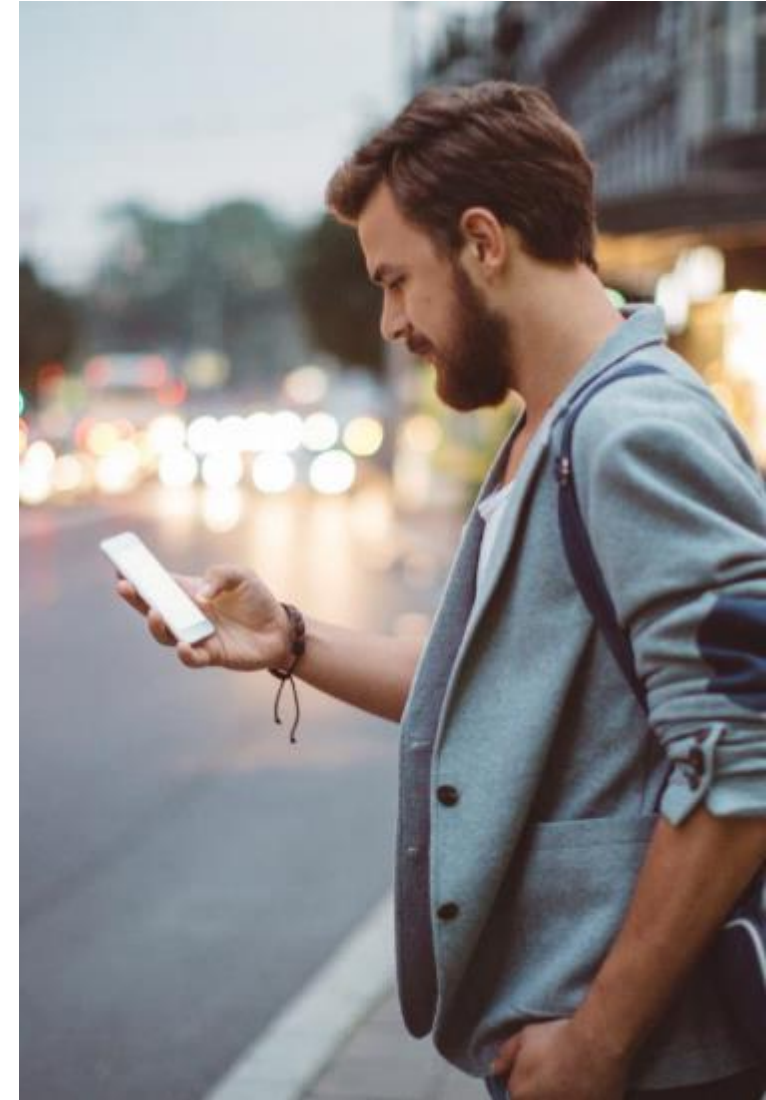
At the end of this lesson, the students will be able to:

Identify the different types of electrical fixtures.

List the different types of electrical fixtures.

Name the different types of fixtures.

Describe the different types of electrical fixtures.





(Smico, 2024)

WHAT IS ELECTRICAL FITTINGS/FIXTURES?

Electrical fittings/fixtures are components used to connect, secure, and protect electrical wiring in various installations. They include a variety of items designed to work together to create safe and efficient electrical connections.



Conduits and Conduit Fittings

Electrical conduit fittings connect these tubes to electrical boxes, enclosures, and other conduits. They include elbows, couplings, and connectors, which help in making turns or extending the conduit system without exposing the wires.

Conduits

Conduits are protective tubes that house and protect electrical wires from external elements and interference. These are typically made from materials like steel, aluminum, or PVC and are essential in creating a safe electrical path.



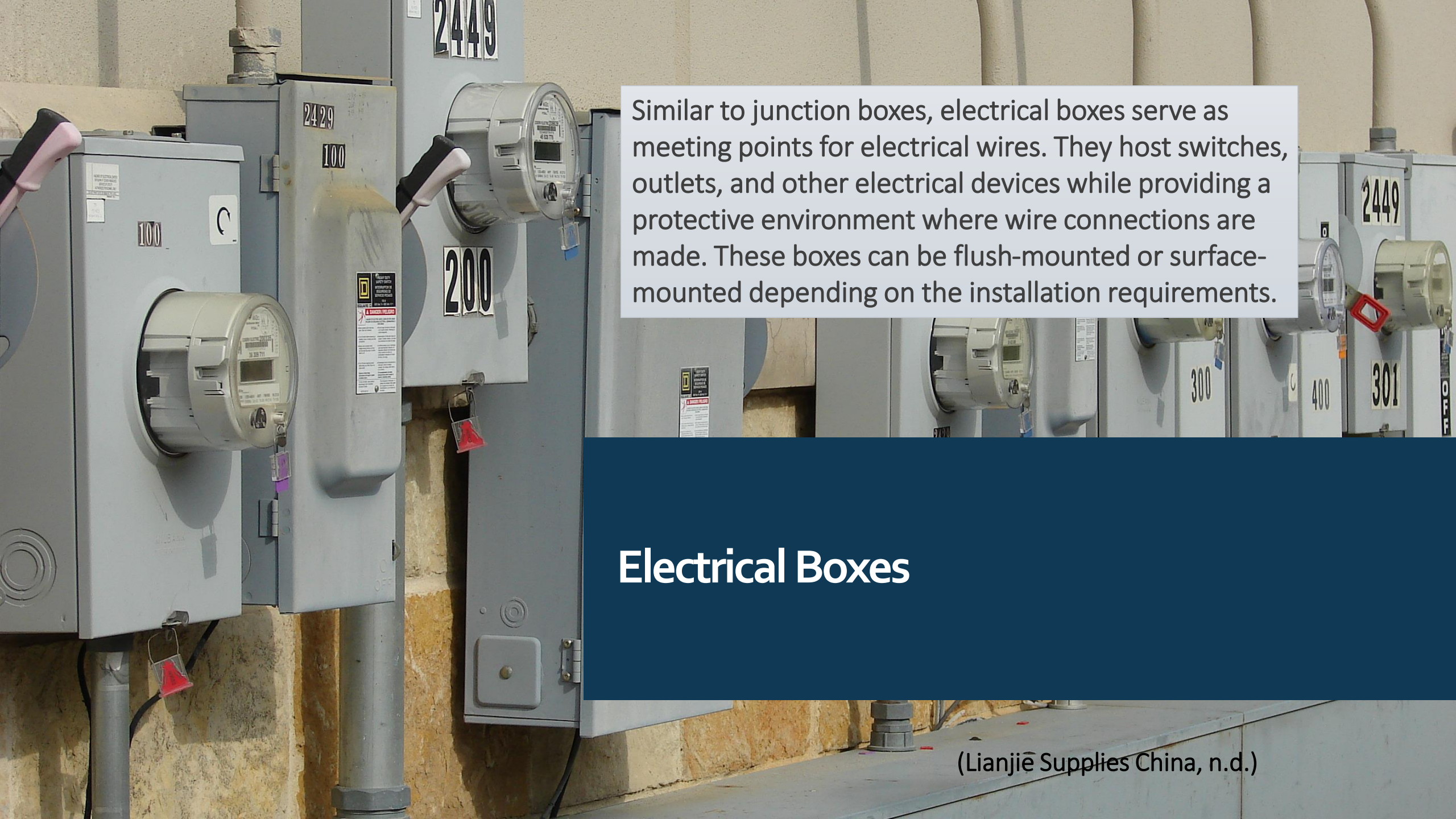


JUNCTION BOXES

Junction Boxes

- Junction boxes are enclosures that protect wire connections while providing a space for wires to split off in various directions. They come in different sizes and materials, suitable for specific environments and load requirements. These boxes play a role in preventing short circuits and electrical fires by keeping connections secure and covered.





Similar to junction boxes, electrical boxes serve as meeting points for electrical wires. They host switches, outlets, and other electrical devices while providing a protective environment where wire connections are made. These boxes can be flush-mounted or surface-mounted depending on the installation requirements.

Electrical Boxes

(Lianjiē Supplies China, n.d.)

SWITCHES

An electric switch is a simple control device used to either complete or interrupt the flow of electricity in a circuit. By opening or closing an electrical path, it allows you to turn devices like lights, fans, and appliances on and off safely without having to touch live wires

(Better Homes and Gardens, n.d.)



LIGHTING FITTINGS/LAMP HOLDERS

Lighting fittings (luminaires) are complete units that hold light sources and connect them to power, while lamp holders (sockets) are the specific components that physically support and provide electrical contact to the bulb. Choosing the correct fitting and holder is essential



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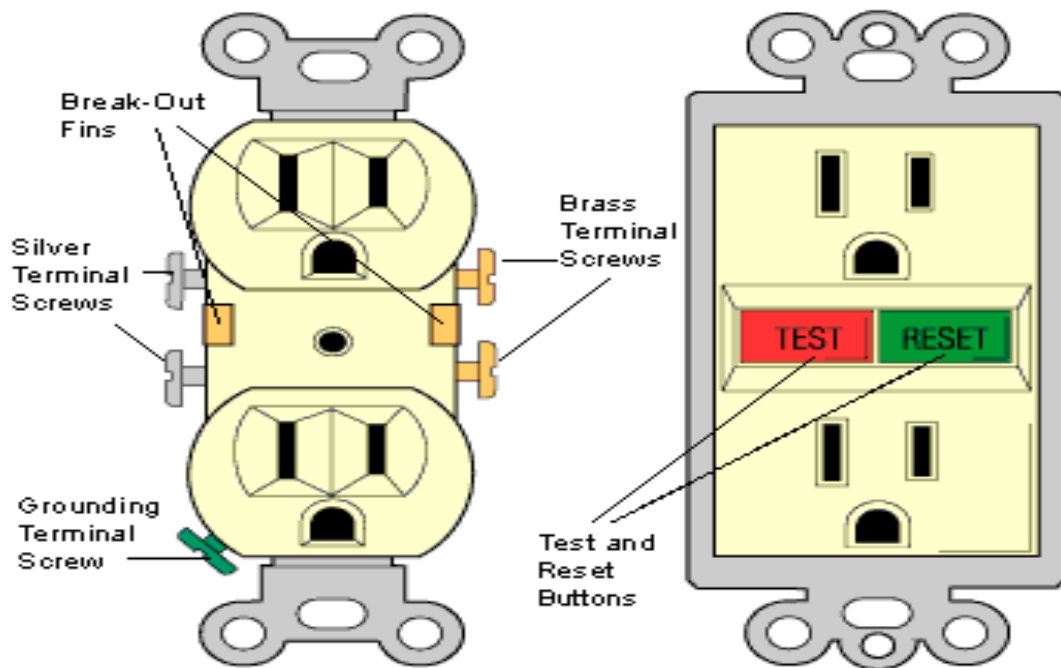
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(Ebay, n.d.)

OUTLET FITTINGS

Receptacle outlet fittings include the physical components and hardware used to install, connect, and protect electrical outlets. These range from the internal receptacles themselves to mounting boxes, conduit connectors, and protective faceplates.



(Dewenwils, n.d.)

Cable Glands

Cable glands secure and attach the end of an electrical cable to the equipment. They are used for strain relief and to connect cables to electrical devices, enclosures, or junction boxes, ensuring that the cables are securely fastened and protected from environmental factors.



(Smico, 2024)

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