# Electrical Technician/Building Electrician Gulf Companies Job Interview Questions & Answers

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## **Q.** What are GI conduits and type of GI conduits bends?

Ans. Galvanized Iron (GI) conduits are commonly used for electrical wiring installations. Bends are typically used to navigate corners, obstacles, and other situations where a straight conduit run is not feasible.

Here are some common types of GI conduit bends:





What is fire alarm and fire detection system Types of Fire alarm System? Ans. Fire Alarm System is designed to alert us to an emergency Fire so that we can take action to protect ourselves, staff and the general public

Fire alarms are installed in Offices, Factories, and public buildings.

- When a sensor/detector detects fire, alarm is triggered, sounders will operate to warn people in the building that there may be a fire and to evacuate.
- > It can also incorporate a remote signal fire brigade and auto activate fire fighting.

# Major components of Fire Alarm System.

Control Panel – Smoke detectors–Heat detectors-Carbon Monoxide detectors– Multisensor detectors– Manual Call Points-Flasher, bells sounder

## **Two Primary Types of Fire Alarm system**

#### 1: Conventional Fire Alarm 2: Addressable Fire Alarm

- 1: Conventional Fire Alarm (Non addressable)
- Components are all wired to the same cable (Loop) that connects them to a fire alarm control panel in zones.
- The control panel displays a signal (zone alarm) when these components activate. We don't know exact location.
- These types of systems are inexpensive and work well in small facilities.

## 2: Addressable Fire Alarm

Addressable fire alarm systems are the most modern type of system and its components have individual unique identifiers.

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- When one of the system's components initiates, it indicates the component's address on the fire alarm panel.
- > Large facilities utilize these systems because they can quickly pinpoint where the trouble signal originated.



#### How many Total Circuit are available in below given drawing?



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Ceiling Light

Light

Fan

Outdoor

Doorbell

Light Bar



## What is mean by ELV,LV & HV voltages range and uses? (MV,LV,EHV,UHV)

#### ELV (Extra-Low Voltage): below 70v

Common Uses: ELV is commonly used for low-power applications Examples include data communication circuits, doorbell systems, and electronic control circuits.

## LV (Low Voltage):70v-600v

Common Uses: LV is used in residential and commercial electrical systems safe for general use. It includes standard power outlets, lighting circuits, and most household appliances.

#### MV (Medium Voltage) 1kv-33kv

Common uses-Power Distribution Networks, Industrial Facilities, Utility Substations, Large Motors and Machinery, Railway Electrification, Mining Operations & Renewable Energy Systems

#### HV (High Voltage):33kv-220kv

Common Uses: Power Transmission Networks, High-Voltage Substations, High-Powered Industrial Equipment, Railway Electrification, HVDC (High-Voltage Direct Current) Transmission, Medical Imaging Equipment

#### EHV (Extra high voltage) 220kv-760kv

Common uses- Transmission, Interconnection of Power Grids, Long-Distance Power Transmission, Bulk Power Transfer, Grid Stabilization, High-Voltage Research

#### UHV (Ultra high voltage) above 800kv

Common Uses-Long-Distance Power Transmission, Interconnection of Regional Grids, Cross-Border Power Exchange, High-Capacity Transmission, Renewable Energy Integration, Grid Stability and Reliability

## **Measuring Tape scales and conversion**







#### Cable Tray, Types of cable tray Size of cable Tray, size measurent of cable Tray?

A cable tray is a structure used in electrical installations to support and organize electrical cables and wires. It supports secure routing of cables in an organized and accessible manner to protect electrical wiring in building or industry.

				<u>standard si</u>		<u>1475</u>		
Ladder-type			Item	Size(mm)	Width(mm)	Height(mm)	length(m)	
	- TIT		1	50*50	50	50	2.44/3	
	P		2	100*50	100	50	2.44/3	
			3	200*50	200	50	2.44/3	
Perforated type			4	300*50	300	50	2.44/3	
			5	100*100	100	100	2.44/3	
			6	200*100	200	100	2.44/3	
			7	300*100	300	100	2.44/3	
Solid bottom type			8	150*150	150	150	2.44/3	
			9	200*150	200	150	2.44/3	
		LIL	10	300*150	300	150	2.44/3	
		ECHNICA						
Wire mesh						A W	0000000	0,000
Channel type		Gulf Life with Asad YouTube Channel				9x25		

#### **GI Conduit Fittings acesories and names**



#### Rigid and Intermediate Metal Conduit Fittings



## **Intermediate switch**

An intermediate switch is a 4 way type of electrical switch used to control of a light fixture from more than two locations.



#### Single Way Switch-

A single-way switch is a basic electrical switch that controls a light or appliance from one

location only.

