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**INTRODUCTION:**  
It is the branch of engineering which deals with the measurement, monitoring, display etc. of the various of process variables which take place during process operations. In short instrumentation is the study of instruments.

**INSTRUMENT:**  
Instrument is a device which is used to measure, monitor, display etc. of a process variable.

**1. What are the process Variables?**  
The process Variables are:  
• Flow  
• Pressure  
• Temperature  
• Level  
• Quality i.e. % O<sub>2</sub>, CO<sub>2</sub>, pH etc.

**2. Define all the process Variables and state their unit of measurement?**  
**Flow:** Defined as volume per unit of time at specified temperature and pressure. Conditions is generally measured by positive displacement or rate sensor.  
**Units:** kg / hr, liter/min, gallon/min, m<sup>3</sup> / hr, Nm<sup>3</sup> / hr, (gpm)  
**Pressure:** Force acting per unit Area. P = F/A.  
**Units:** N/m<sup>2</sup>, Pascal, kg / cm<sup>2</sup>, lb / in<sup>2</sup>.  
**Level:** Difference between two heights.  
**Units:** meters, cm, m%, percentage  
**Temperature:** It is the degree of hotness or coldness of a body.  
**Units:** Degree centigrade, Degree Fahrenheit, Degree Kelvin, Degree Rankine  
**Quality:** It deals with analysis (pH, % O<sub>2</sub>, % CO<sub>2</sub>, Conductivity, Viscosity)

# the TEN most common interview questions

1. tell me about yourself

2. why are you suitable for this job

3. why do you want to work at this company

4. why do you want to leave your current job

5. what is your biggest strength

6. what is your biggest weakness

7. where do you see yourself in [x] years

8. what are your salary expectations

9. tell me about a time when you had to work with a difficult person

10. tell me more about [anything on your resume]

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## 19. Do you have any questions?



Around 75 percent of job seekers will say “Nope, I think that’s everything” to this question. Terrible response.

This question gives you a fantastic opportunity to stand out from the crowd and show your knowledge and passion for the company or organization you are interviewing for. Always have a few questions prepared and have one based around something you found during your company research phase.

### Tips to answer this question:

- Focus your questions on the company and what you can do for them.
- Ask about something you’ve discovered in your company research. This will show your passion and knowledge of the company.

**Useful material:** <https://www.slideshare.net/jobsearchtipsa2z/top-questions-to-ask-employer-after-job-interview>

### BASIC INTERVIEW QUESTIONS

- **Tell me a little about yourself and your experience**  
Talk about things you have done and jobs you have held that relate to the position you are interviewing for. Start with the item furthest back and work up to the present.
- **Why did you apply for this position?**  
Because I would like to gain experience in an established hotel (or 5 Star Hotel or restaurant), I enjoy cooking and would like to develop my career as a chef.
- **Why are you the best person for the job?**  
Because I love to cook and work with a team, I am reliable and hard working.
- **Why did you leave your last job?**  
Your answer must be positive regardless of the circumstances. Never refer to a major problem with management and never speak badly of supervisors, co-workers or the organization.
- **What would your previous bosses, colleagues or teacher say about you?**  
They would most likely say that I am hard working, happy to learn, a good student who listens and complete my assignments/tasks on time. Good at teamwork.
- **What can you tell me about this company?**  
You should know some information about the company e.g. What type of restaurants they have and how many, how long it has been opened, how many rooms (if you are applying for a hotel), types of activities they have e.g. spa, water sports, tennis courts, gym.
- **Are you a team player?**  
You are, of course, a team player. Be sure to have examples ready.
- **What are your Strengths?**  
E.g. Carving, leadership, can work under pressure, good at solving problems, work well within a team.
- **What are your weaknesses?**
- **Are you willing to work overtime? Nights? Weekends?**
- **What has been or is your greatest achievement in your past or current role?**
- **Can you give me an example of where you have learnt from a mistake you have made? – What did you learn?**
- **What is more important to you: the money or the work?**  
Money is always important, but the work is the most important.
- **What qualities do you look for in a boss?**  
Someone who has great knowledge, good at training, loyal to the staff and treat them all equally, leads by example and has a good sense of humor.
- **Do you have any questions for me?**  
Always have some questions prepared. Questions like when would be able to start if successful, how many chefs do you have in the kitchen? How many covers does the restaurant do? Do you make all the food in house? Do you provide English Training?  
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straight bimetal range deflect proportionally to its temperature, to the square of its length and inversely with its thickness.  $RO = \text{Zero temperature resistance. This article provides the questions and answers of instrument engineers interviews and electrical engineering and instrumentation responses.}$  transducers to the millivol signal output to be processed The long distances. A good example for this is the tension meter. tension. The difference of pressure deduced by the meter will only be due to the change of the wool. An alarm is a process variance event, such as low, tall, tall, etc. What are the differences in the non-nose switch (LS) and transmitter of noise (LT)? 3. The largest sheath of a resistant thermal meter resembles that of the bimetallic thermometer. Answer 2: The reason is because the current is a flow measurement - how many elons are passing through the wire, while tension is a measure of difference the energies between two points. Why do we measure the chain in SA © rie and why do we only measure the tensile in parallel? Just as we can find the first sign of the travel record. To measure the flow, the multi meter puts a very low resistance on the circuit and measures the drop in this resistant. Air pressure to the bubbly tube is thoroughly superior to the vessel-leisurewares, so that the prescribed air pressure is a measure of the non-tank in the tank. Therefore, before installing and using the instrument, read the manual carefully and determine the correct output, as the transducers and transmitters are used to inter-trocacianal by manufacturers, depending on their choice. The two elements are being constructed that the media of helical floats on a mother base whose position is governed by helical compensation. The indicator mechanisms, records or controllers are connected to the pressure spring.  $t \epsilon = \text{temperature to be measured. Explosion and work pressure in psi to 100 degrees F Fan.} = \text{Thickness of the wall in inches } d = \text{nominal external dictate in workplaces of work} = 1/4 \text{ internal explosion pressure which is the difference between SOE and alarms? Read also: flow transmitters questions and answers from interviewing the transducer millivolts output to travel through long distances to the bedrooms. When a wool is in a vessel of lecture, the pressure of the wool spine can not be used unless the vessel pressure is balanced. Therefore, it needs to be done during the installation. Two RTD wire. Explain for communication RS 485 and RS 232? These metals are a positive temperature expansion coefficient. When one of each wire is connected to an instrument of thermocouple measurement becomes a precise and sensitive temperature measurement device. Types of Material Used: These metals are a positive temperature expansion coefficient. This is done through the use of different pressure meters. MOTHER ALL ELABY TEMPERATURE MEASUREMENT: 1. The non-digital input key, where it provides only two signals in (1) or off (0). LVD's provide linear output for small displacements where the no° Core remains inside the file coils. It consists of a wire of five wraps around an insulator and closed in a metal, where the transmitter of the novel provides an anal lying means that the value of the output varies in relation to time. Usually between 4 and 20ma. Once the connections are supplied supplied simulation simulating the simulator, check the error.  $R100 = 100 [1 + (38.5 \times 10^{-10} \times 100)]$   $R100 = 100 + (100 \times 0.385)$   $R100 = 138.5$  resistant at 100 Measurement of noble? Terminology Two slowly merged with new technologies being developed in the automation field and industrial controls in the specificities of the process measurement. The wool expands, causing the pressure of the pressure to unfold. Wool full of wool = class 1 2. If someone wishes a direct answer from a sentence for this, it would be very difficult. Because they are. Measurement of the indirect one: (a) Pressman meter: This is the all simpler, as the pressure meter is located in the notion of a vessel zero. Pressman Spring Thermmarals: Four classes of pressure spring theme. The travel in in the wool due to which there is a weight loss, depending on the specified severity of the wool. . subway. They are usually in contact with the environment or the material itself to be measured. The other end of the tube is connected to a regulated air supply and a pressure meter. Thermal themes full of genes: This type depends on the increase in the pressure of one of the confirmation (constant volume) due to temperature. Therefore, resistance increases as the temperature increases. The compensation in expansions full of the timic system consists of the second tube and helical element, both full of wool. Foucault current generates between the tip of the vibration probe and the axis. If there is any errors, we can make adjustment. Doesn't it measure the current in parallel? System: System of two wires RTD use the short distance, as a local compressor field panel. Increase and decrease the area by the axis. Thus, the transmitters were developed. To measure the amount of Irons that go through a thread, you really need to put the multi meter inside the flow. The upper connection is made for column L.P. from the transmitter and the bottom to H.P. transmitter column. Does this travel hung freely on a knife transmitted to the pneumatic or electronics equivalent at the other end, which is a linear variable differential transformer (LVDT)? It sounds meaning is a sequence of events. The completed gene = class 3 4 4. As the noise of the wool in the vessel changes, the same is true of the wool in the glass tube. A transmitter of Train wires is also developed to have a signal from 0 to 20ma. What are two wires and other RTD wires? Resistant - Temperature Detectors (RTD): RTD are usually used á € 20 Å ours media accurate temperature, or PT100. The two tubes and the helical are paired in volume, so that the temperature variation in the instrument box and along the capillary tubulation produce equal movement of both helical. increase. In the early years of industrial automation, transducers and transmitters are totally different, but with research and development, manufacturers began to make instruments of packets. interior and its size becoming small due to the advancement of the electrical manufacturing. Therefore, resistance increases as temperature. Mercan in Glass Thermmarals: It consists of a very thin hole glass tube joined to a reservoir at the bottom and sealed at the top. We can discover the registration of the trip. Principle: á € øThe resistant increases as it increases the temperaturæá € rt. =  $RO (1 + \Delta \pm t)$  RT. = Temperature resistant to measure. The contrast between these two engineering terms was slowly blurred for overtime due to the advancement of technology. Bimetallic Thermometer: Two metals whose linear expansion coefficient is different are soldiers and rolled together to the thickness of desire. We know that the range is resistant, so if we connect it in parallel with the CKT, that's short the device in which we are measuring the current. And we know that the voltammetro has great resistant, so if we connect it in SA © rie, it will open the CKT and prevent current flow. Thermocouples: It is a simple device that consists of different metal wires united at its ends. To make a number of no air, the air supply is adjusted so that the pressure is slightly larger than the pressure due to the height of the wool.  $RO = 100 \times \text{Platinum} = 0.00385 / C$ . As the current is practically not affected by radio fervent interfere, unlike the tensile that are sensitive and to it and would add Your reading, in addition to being intolerant of resistant, usually a The transmitter is used with the 4-20ma output. Using a huge resistant, the multi meter has a discouraged impact on the circuit when placed in parallel. We can make dry calibration for a magnetic flow meter, that is, we need to remove the connections from the meter flow sensor tube and connect the simulator to the transmitter. The all-above mother is suitable for open tank applications. But with the evolution of technology and automation, such as energy plants and boiler operations, now they are necessary process instruments to "throw" readings or outputs in long distan € Nunses. Some of the uses of deforming meters are for the measurement measurement in mothers, pressure sensors, tensioning measurement, tensan sensors f o, impact sensors, torque measurement. The report between temp. MERCON CHICKEN FULLY = € CLASS 4 FULLY AND MERCONY FULLY. Both type, operate with the principle of the expansion. From the attached transducer its visual indication, the distances are very short. There are two ways to measure the noisy: 1. Director 2. Indirect. How to make the calibration of the magnet flow meter? Any increase in the novel causes an increase in pressure that can be measured by a meter. Why are we maintaining the gap tension in the vibration probe? Currently, some transducers have integrated circuits within their packaging with size as small cell phone or even smaller cards. Train System Wire: Wire Trem System Use for Long Distance Coke A field to control the room. (b) Purga system: In this motto, a tube is installed vertically with the open and zero. When the thermometer is heated, the mercy - the glass expands much more than the glass and, therefore, it is forced to rise in the tubulation, a scale is fixed next to it. Where the wool is immersed in a heated substance. (b) Vision glass: It consists of a graduated glass tube mounted on the side of the ship. 1. to a very low resistance, the multimeter has an insignificant impact on the circuit when in just rie. Instrumentation Engineers Questions What is the capacity of the impulse line tube? The pressure difference in the vessel is balanced, as it is fueled with the meter column. Compensated Thermometer System: The compensation are provided to nullify the effect of changes at room temperature. Increased pressure for each degree of increased temperature is therefore greater than if the filling pressure was low. Rather, the transducers are sufficient to make measurements of the parano meters of the plant and its output displayed in the field or near the equipment with measurements performed. (D) Measurement of the type of displacement type: the noisy of the most common instruments used to the level of mediation in closed tanks. Nitrogen The GA altard more then used for these systems, because it inserts chemically and has a feature of favorable coefficient. The different measures of temperature measurement are: Mother © All mechanical: 1. The third wire is used to compensate from resistant to lead wire. Rather, transducers are connected to the transmitter and then sent to a controller, now the transducer/transmitter instrument can now be connected directly to the controllers. NOTE: When placing a multi-meter in a circuit in a rie with it has become the configuration of tension or in parallel with the current configuration, you will destroy the MULTONMETER or trigger the circuit breaker or the fusive. What are the different mothers of temperature? Steam Pressure = Class 2 3. To measure the energies between two points, the multi is placed in parallel in the circuit with a huge resistant and measures the current through resistance. This nullity of movement to each other, so that only the movement produced varying the temperature of the wool acts the tape recorder. RS232 is a complete duplex cable means that transmission and receipt happen at a time due to Noise will be more so that we cannot go to a longer distance RS485, half The cable means that in a time, transmitting or receiving will be that we can go through a longer distance without disturbing which is the difference between a transducer and a transmitter? 2. and in this type of system follows Charles's law and can be expressed. express.$

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