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Implementation and Maintenance of Systems for Instrumentation and Control of Industrial Processes

In the United States, the professional responsible for tasks related to the "Implementation and Maintenance of Systems for Instrumentation and Control of Industrial Processes" is generally known as an "Instrumentation and Control Technician," "Control Systems Technician," or "Automation Technician." Depending on the level of responsibility and specialization, titles such as "Instrumentation Engineer" or "Control Systems Engineer" may also be used. These titles accurately reflect their expertise in the installation, calibration, maintenance, and

troubleshooting of industrial control systems. An Instrumentation and Control Technician (sometimes referred to as an Industrial Instrumentation Technician) specializes in the installation, maintenance, calibration, and repair of systems used to measure and control industrial processes. These systems are crucial for ensuring that manufacturing and production processes run efficiently, safely, and within specified parameters.

1. Technician: tecnico
2. Automation: automatizacion
3. accurately: exactamente / con exactitud
4. troubleshooting: solucion de problemas / resolucion de problemas
5. Ensuring: asegurar / garantizar

+ Add Another response

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19°C 10:54 a. m. 21/08/2024

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Instrumentation and Control Technicians

Instrumentation and Control Technicians, install, calibrate, maintain, and repair instrumentation equipment that measures and controls physical variables such as flow, pressure, temperature, and level in industrial processes. These professionals identify problems within control systems and take corrective actions to restore proper functioning. They configure and program PLCs and other control devices to automate industrial processes. These professionals perform precise calibrations and configurations of equipment to ensure the proper operation of control systems.

Control Systems Technicians, monitor the operation of SCADA (Supervisory Control and Data Acquisition) and DCS (Distributed Control Systems) to oversee and control industrial operations. They integrate new equipment and technologies into existing systems, ensuring they operate efficiently and safely. These professionals work on optimizing control systems to improve efficiency and reduce resource consumption.

Students, write your response!

Pre View (Teacher Only)

Your Response

1. repair: reparar
2. equipment: equipamento
3. measures: medir
4. such: tanto
5. flow: fluir
6. acquisition: adquisición
7. safely: sin riesgo
8. consumption: consumo

Type text response here

+ Add Another response

Slide 3/10

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Instrumentation and Control Technicians

Automation Technicians, participate in the automation of industrial processes by installing and configuring control equipment and software. They ensure the proper maintenance of automated systems, preventing unplanned downtime and optimizing uptime.

Instrumentation Engineer / Control Systems Engineer: Engineers in this area focus on designing, developing, and improving control systems for industrial processes.

They may be responsible for leading projects to implement new control systems, from equipment selection to commissioning and validation. These professionals use data collected by instrumentation systems to analyze and optimize the performance of industrial processes.

Students, write your response!

Proctor: [unreadable]

Your Response

- 1.proper: correcto
- 2.maintenance: mantenimiento
- 3.unplanned: no planeado
- 4.downtime: inactividad / descanso
- 5.developing: en desarrollo
- 6.commissioning: comision / encargo

+ Add Another response

Slide 4/10

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What do you know about it?

GAME COMPLETE

Score
1860

Show answers

Start again

Viewing wordwall.net/play...

Slide 5/10

20°C 11:52 a. m. 21/08/2024