

ISA Certified Control Systems Technician (CCST) program

Certified Control System Technicians (CCSTs) calibrate, document, troubleshoot, and repair/replace instrumentation for systems that measure and control level, temperature, pressure, flow, and other process variables.

CCST question



Instrument technicians often use Process & Instrumentation Diagrams (P&ID) as a reference to identify what type of instrumentation is installed and how this instrumentation is installed in the process. Referencing the process line depicted above from a typical P&ID, which of following statements is true:

- A. TE-102 is shown as a surface-mounted temperature sensor, and pressure sensor PI-101 is "directly-connected" to the process.
- B. Temperature sensor TE-102 is inserted into a thermowell, and pressure indicator PI-101 uses a filled capillary system and diaphragm seal to isolate it from the process fluid.
- C. PI-101 and TE-102 are wired directly to a DCS controller.
- D. Temperature sensor TE-102 is a bulb-type sensor, and pressure sensor PI-101 is electrically-connected to an electromagnetic isolator.

CCST answer

The correct answer is **B**, temperature sensor TE-102 is inserted into a thermowell, and pressure indicator PI-101 uses a filled capillary system and diaphragm seal to isolate it from the process fluid. A diaphragm seal is shown on a P&ID as a box with a "wavy line" inside. This represents the isolation that a diaphragm seal provides between the process fluid and the instrument. A capillary (filled) system is identified easily by the "X's" in the connection line between the PI and the diaphragm seal. For the temperature sensor, we do not know what type of sensor is installed (RTD or thermocouple), but the circle touching the process line indicates that the sensor is installed in a thermowell.

Answer A cannot be correct because a directly-connected pressure sensor would not use a diaphragm seal or capillary system. Surface-mounted temperature sensors do not use wells and would be shown without the circle touching the process line.

Answer C is incorrect because no information is given about wiring connections. In fact, the lack of this information and the absence of a transmitter for each sensor would indicate the instruments shown are local indication only.

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web a hopper car us or hopper wagon is a type of railroad freight car used to transport loose bulk commodities such as coal ore grain and track ballast two main types of hopper car exist covered hopper cars which are equipped with a roof and open hopper cars which do not have a roof

