

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.

Isa Ccst Manual

Clive Shelton



Isa Ccst Manual:

ISA Certified Control Systems Technician (CCST) Program, Level I Study Guide, Version 2.0 ISA (Society),1995-12 This study guide is designed to provide a review of key content areas domains covered on the CCST examination and to familiarize the applicant with the type of questions that may be covered Actual CCST examination questions are not included in this study guide Page 1 **InTech** ,2002-07 **Certified Control Systems Technician (CCST) Program** ,1998 *Chemical Engineering Progress* ,2003 **American Book Publishing Record** ,1997 Subject Guide to Books in Print ,2001

CCST Level III Study Guide Isa Society,2002 The Level III Study Guide provides a selective representative sample of questions like those that make up the Level III Certified Control Systems Technician CCST examination The 3rd edition has been rewritten to include new questions and answers that better reflect the difficulty of the Level III exam The questions are divided into the eight performance domains covered on the exam each domain contains the same percentage of questions that appear on the exam The Study Guide includes an answer key to help you determine your level of preparation along with tables directing you to books and other resources to study for areas that you need to brush up on *Isa Ceriticied Control Systems Technician* ,2006-04 To help prepare you for the Level II exam this Study Guide provides three sample problems of the types presented on the exam The 3rd edition includes the actual Sample Problem and Latent Pen from the Level II examination It also provides you with an explanation of how the exam is constructed how it is to be completed and how it is scored ISA s Certified Control Systems Technician CCST Level II Exam tests the knowledge skills and abilities required to solve practical problems encountered everyday on the job This exam presents a series of problems based on scenarios that present practical situations that you are likely to face or have faced on the job Most of the situations are complex and many involve problems that are potentially hazardous Problems presented in the exam simulate as closely as possible the types of situations that you may encounter in actual practice Knowledge in the same eight domains listed for Level I is required for this exam as well **ISA's Certified Industrial Maintenance Mechanic (CIMM) Study Guide** ,2004 The CIMM Study Guide is a comprehensive self study resource for the CIMM certification exam The study guide contains a list of the CIMM domains and tasks 50 review questions and answers complete with justifications and references The study guide also includes a recommended list of publications that can be used to do further research on specific domains This study guide is recommended as a pre requisite to taking the CIMM exam **Symbols, Specification Forms, and General Terminology** Instrument Society of America,1997 **ISA Handbook of Measurement Equations and Tables** Jim Strothman,2006 This updated expanded and improved version provides hundreds of essential equations and tables to help you select operate and maintain measurement devices The 2nd Edition adds brand new chapters packed with tables and equations for Industrial Communications Buses Safety and Environmental Measurements Tables and equations have been added to all the previous edition s chapters covering Units of Measurement Pressure Flow Temperature Level Humidity Electrical and Viscosity

measurements **ISA Administration** Clive Shelton,2010 **The ISA Fieldbus Guide** ISA,2001 A complete compilation of articles in InTech magazine on the topic of Fieldbus Topics include ISA SP50 How Buses Relate Fieldbus Interoperability Full Service Fieldbuses Device Buses Sensor Buses How Fieldbus Will Affect DCS Design DCS Architectural Changes Networking Terminologies and Licensing *ISA Standards, Recommended Practices, and Technical Reports: Process system safety* ,1999 *I.S.A. Handbook 2009-2010* Independent Schools Association,2009 ISA, Inspection System Guide ,1992 **ISA 95 Integration Standards A Complete Guide - 2020 Edition** Gerardus Blokdyk, **ISA Handbook of Measurement Equations and Tables, 2nd Edition** Jim Strothman,2005* Documentation for Control Centers ISA Staff,1990-01-01 Covers the preparation of engineering designs specifications for control center facilities Because of the wide variety of industries using control centers the information is general rather than specific References are made to applicable industry codes standards to national codes that are law under the Occupational Safety Health Act OSHA The user is cautioned to consult local state building construction codes that may also apply to comply with the latest revisions of all such codes standards particularly in the nuclear power plant industry **Ansi/Isa-98.00.01-2002 - Qualifications and Certification of Control System Technicians** ISA,2002-12 Identifies the recommended criteria addressing qualifications based on education experience training and job performance for certification of control systems technicians Provides industry with a basis for certifying the qualifications of control systems technicians who work on facility equipment that is important to safe and efficient operations in order to help reduce the possibility that unqualified personnel could perform improper maintenance on such equipment

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