

Exam Study Guide

Prepared under the oversight of the
IIBEC Certification Council (ICC)



iibec.org/credentials





STUDY GUIDE FOR CERTIFIED BUILDING ENCLOSURE COMMISSIONING PROVIDER (CBECxP®) EXAM

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STUDY GUIDE FOR CBECxP® EXAM

INTRODUCTION

Applicants who have satisfied all application requirements including the submission of all supplementary documentation, become exam eligible. Each exam-eligible applicant will be emailed by the testing vendor to schedule a test session. Upon achieving exam eligibility, an applicant has two (2) years within which to take the exam and obtain a passing score. The test fee is \$(US)325. Candidates who do not initially pass the exam will have the option to re-test every four (4) months during the aforementioned two (2)-year timeframe. A test fee must be paid prior to each exam attempt.

If the two (2)-year timeframe has elapsed and a passing score has not been obtained by the applicant, the application will expire. All application materials will be destroyed by IIBEC and a new application, including payment of the application fee, will be required.

The CBECxP exam is online, and computer based. It is administered by a third-party test vendor, (Measure Learning,) offering conveniently located test centers and live remotely proctored testing using the applicant's home or office computer. Conditions and requirements for in-center testing or remote testing including requiring a test-taker to sign a non-disclosure/confidentiality agreement, confirming a test-taker's identity prior to testing, test session proctoring procedures, identification of materials allowed and disallowed during a test session, and processes for monitoring cheating-related activities are communicated to test-takers by Measure Learning. Cheating is never allowed. A test-taker who engages in cheating is subject to disciplinary action including cancellation of his/her CBECxP application.

The CBECxP exam addresses all phases of the building enclosure commissioning process (pre-design, design, bidding and negotiation, construction, and occupancy and operations). The CBECxP exam is a three (3)-hour test consisting of 100 multiple-choice items, including 10 unscored field-test items. Field-test items do not contribute to a candidate's score and are used to evaluate items for possible inclusion on future exam forms, helping ensure consistency across exam versions. Field-test items are distributed randomly throughout the exam, and candidates cannot distinguish between scored and unscored items. A list of reference publications used in the development of the exam, an outline of the exam objectives, and suggestions for exam preparedness are provided on the following pages.

EXAM RULES & EXPECTATIONS

IIBEC partners with Measure Learning to deliver its certification exams securely and fairly. IIBEC's exam rules and expectations, as outlined in this Handbook, are the authoritative requirements for all candidates. These rules take precedence over any vendor-supplied guidance.

For additional logistical and technical information about your exam session, candidates should carefully review the notifications they receive directly from Measure Learning, including:

- » Notice to Schedule (NTS) – provides instructions for scheduling, eligibility period, and account access.
- » Scheduling Confirmation Notice – confirms your exam appointment details, admission requirements, and test center or remote proctoring procedures.
- » Live Remote Proctoring (LRP) Confirmation – provides technical requirements, system checks, and exam-day steps if testing remotely.

Candidates are responsible for reviewing and following the instructions in these notices in addition to the rules in this Handbook.

ADA SPECIAL NEEDS MODIFICATION REQUESTS

IIBEC complies with the requirements of The Americans with Disabilities Act (ADA). Individuals requiring special needs modification(s) for completion of any application-related activity, including the CBECxP exam, should contact the IIBEC Certification Program Staff: 434 Fayetteville Street, Suite 2400, Raleigh, NC 27601, CBECxP@iibec.org, (800) 828-1902. A completed form containing all required signatures is needed; that form is available in this Handbook.

IDENTIFICATION & CHECK-IN

You must have a current (non-expired), government-issued photo identification with signature (driver's license, immigration card, passport, U.S. passport card, state ID card, or military ID card). The first and last name on your identification must exactly match the name in your exam scheduling record; nicknames and mismatches will not be accepted. Candidates who fail to provide proper identification will be considered a no-show and will forfeit exam fees. Original documents are required.

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Name-change documentation (e.g., marriage license, divorce decree, or court order) will not be accepted at the test site.

Any updates to candidate records must be submitted to IIBEC and Meazure Learning at least one (1) week prior to your appointment.

Arrive or log in 15 minutes before your scheduled time to complete check-in. Remote candidates will complete a 360° room scan; the room must be private, free of distractions, and subject to proctor verification, including a 360° scan of the workspace and monitor using a reflective surface. On-site candidates must store belongings in lockers as directed.

REMOTE PROCTORING & RECORDING

For candidates testing remotely, all exam sessions are delivered through a locked-down browser and are continuously monitored by live proctors via audio and video. Before the exam begins, candidates must present a current (non-expired), government-issued photo identification with signature (see details above- Identification & Check-In), and complete a 360° room scan to verify that the workspace is free of unauthorized materials.

At the conclusion of the exam, candidates must remain connected until formally dismissed by the proctor. Disconnecting before dismissal may result in a report to IIBEC and Meazure Learning and could affect exam validity.

All remote exam sessions are recorded and securely retained by the exam vendor. IIBEC Staff conduct regular spot checks of recorded sessions to ensure compliance with exam rules and security protocols. Any security incidents identified during or after the exam will be investigated, and appropriate action will be taken, which may include invalidation of results or disciplinary measures. All remote sessions are recorded and securely retained. Recordings will be retained for up to one (1) year and reviewed by IIBEC and Meazure Learning for quality assurance and security purposes.

EXAM ENVIRONMENT

Testing is continuously monitored by audio, video, and live proctors.

For remote exams, live proctors monitor in real time, and your environment must remain private and interruption-free.

Candidates must test on a compatible device with full administrative privileges. PC computers are recommended, though Macs are acceptable. Chromebooks, tablets, iPads, projectors, and dual or multiple monitors are not permitted. All unnecessary programs, including VPNs and remote access software, must be closed before the exam begins.

BREAKS

You may take one 10-minute restroom break during the exam. The exam timer will continue to run during the break, and you will need to complete a room scan upon returning to the computer, if testing remotely. No additional time will be added to the exam for time spent during the break or room scan.

Candidates requiring accommodated breaks must follow the ADA request process described in the ADA Special Needs Modification Requests section of this Handbook.

PROHIBITED ITEMS

The following are **strictly prohibited** in the testing area or during online exams:

- » Cameras, cell phones, optical readers, or other electronic devices that include the ability to photograph, photocopy, or otherwise copy test materials.
- » Notes, books, dictionaries, or language dictionaries (except as expressly permitted by the exam sponsor, see the Additional Examination Specific Information in your confirmation notice email if applicable).
- » Bookbags or luggage.
- » Purses or handbags.
- » iPods, mp3 players, tablets, headphones, or pagers.
- » Calculators, computers, PDAs, or other electronic devices with one or more memories.
- » Personal writing utensils such as pencils, pens, and highlighters.
- » Google and smart glasses (any glasses with electronics).
- » Watches, smart devices, and other jewelry except wedding or engagement rings.
- » Weapons.
- » Medicine, including cough drops (except as expressly permitted in advance),
- » Food and beverages; and
- » Coats and jackets.

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- » Hats, hoods, or other headwear are not permitted in the examination room unless required for religious purposes. All items are subject to inspection by the proctor if suspicious behavior is detected.
- » Please note that sweaters and sweatshirts without pockets or hoods are permitted to be worn.
- » Leaving the testing area for any reason other than the approved restroom break is prohibited and will result in exam termination.

EXAM CONDUCT

- » You are strictly prohibited from retaining, copying, distributing, disclosing, discussing, possessing, or receiving any examination content, including even partial questions, by written, electronic, oral, or other form of communication.
- » Unauthorized aids or assistance are prohibited.
- » All candidates must sign the Candidate Attestation acknowledging understanding of these rules.
- » Violations will be reported immediately to IIBEC and may result in exam invalidation and/or disciplinary action.
- » Cheating is never allowed on any IIBEC Certification Program exam. Individuals engaging in any kind of cheating behavior or activity will be subject to disciplinary action by IIBEC.

CONFIDENTIALITY

Candidates agree to maintain the confidentiality of all examination content. Exam questions, in whole or in part, may not be copied, reproduced, shared, or disclosed in any form, either during or after the exam session.

SECURITY OF EXAM MATERIALS

Exams are delivered through a secure, locked-down browser (remote) or locked-down workstation (test center). Content is encrypted, restricted to your exam session, and removed from the system immediately upon completion.

Proctors are trained to identify suspicious behavior and respond promptly. Any suspected breach will trigger incident documentation and possible remediation actions by IIBEC.

CANDIDATE AGREEMENT

Before beginning the exam, candidates are required to complete an electronic attestation through

Measure Learning. By signing this attestation, candidates confirm that they have read and understood the rules in this Handbook, agree to abide by IIBEC's exam security protocols, and acknowledge that any violations may result in termination of the exam, invalidation of results, or other disciplinary action

RESCHEDULING & NO-SHOWS

Candidates must follow the scheduling, rescheduling, and cancellation policies outlined in their confirmation email from Measure Learning. Failure to appear for a scheduled exam appointment without proper rescheduling will be considered a no-show, and exam fees will be forfeited.

OBTAINING TEST RESULTS

A report letter with the applicant's exam result is delivered to each test-taker from the test vendor (Measure Learning). Each certification exam is scored as "pass" or "fail". Each test-taker may access exam results via the vendor's (Measure Learning) secure, password protected portal for up to one (1) year following the exam date.

RECORD RETENTION

IIBEC maintains candidate application, eligibility, exam, and certification records in accordance with its established record retention policy. At a minimum, records are retained for the duration of the active certification cycle plus one additional cycle, or longer if required by law or accreditation standards.

RE-TESTING

Following approval of an applicant's complete application, an applicant has two (2) years to pay the exam fee, take the exam, and obtain a passing exam score. Within that timeframe, if an applicant does not produce a passing score on the initial testing attempt, a re-test can be scheduled every four (4) months until the two (2) years have elapsed. The exam fee shall be paid by the test-taker for each exam session.

EXAM APPEALS

Candidates have the right to appeal certain exam-related decisions, including denial of eligibility, exam administration irregularities, exam results, or disciplinary actions. Appeals must be submitted using the official Appeals Form and process described in the Appeals section of this Handbook.



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ADDITIONAL RESOURCES/EXAM PREPARATION GUIDANCE

IIBEC exam rules provided in this Handbook are the authoritative requirements for all candidates. These rules take precedence over any vendor-supplied guidance.

These weblinks, indicated below, offer webpages with suggestions that CBECxP applicants may find useful when preparing for exam day. Beyond these public sources, many books and articles are available on the topic of exam preparedness. Each applicant should evaluate his/her unique needs and seek information resources best suited to meeting those needs.

Exam expectations

Source: Meazure Learning

What You're Allowed and Not Allowed to do During Your Exam

(<https://support.proctoru.com/hc/en-us/articles/360043127892-What-am-I-allowed-and-not-allowed-to-do-during-my-exam>)

System requirements

Source: Meazure Learning

System Requirements

(<https://support.proctoru.com/hc/en-us/articles/24692181239309-Equipment-Requirements>)

What to expect on exam day

Source: Meazure Learning

What to Expect on Exam Day

(<https://support.proctoru.com/hc/en-us/articles/9951434736525-What-to-Expect-on-Exam-Day>)

What to expect during your remote proctored exam

Source: Meazure Learning

What To Expect During Your Remote Proctored Exam

(<https://measurelearning.wistia.com/medias/x8sicg86fm>)

Meazure learning's in-person test center experience

Source: Meazure Learning

Meazure Learning's In-Person Test Center Experience

(<https://measurelearning.wistia.com/medias/ja4lhxr9il>)

Guardian browser information

Source: Meazure Learning

Download the Guardian Browser

(<https://guardian.measurelearning.com/>)

Guardian Browser Support Resources

(<https://support.proctoru.com/hc/en-us/sections/9979847689229-Guardian-Proctoring->

[Browser-Resources](#))

Help center link

Source: Meazure Learning

ProctorU Help Center

(<https://support.proctoru.com/hc/en-us/categories/115001818507>)

Test center locations

Source: Meazure Learning

Test Center Sites

(<https://www.measurelearning.com/candidate-services>)

Preparing yourself for exam day

Source: Complete Test Preparation, Inc.

<https://test-preparation.ca/test-tactics-mental-preparation/>

Dealing with exam anxiety

Source: University of St. Andrews

<https://www.st-andrews.ac.uk/guides/exam-anxiety/>

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REFERENCES

Title	Author	Pub. Date
1 ANSI/ASHRAE/IES Standard 202, Commissioning Process for Buildings and Systems, Section 3, Definitions	ASHRAE	2018
2 ASHRAE Guideline 0, The Commissioning Process, Section 4, Definitions	ASHRAE	2019
3 ASTM C1153-10, Standard Practice for Location of Wet Insulation in Roofing Systems Using Infrared Imaging	ASTM International	2015
4 ASTM C1060-11a, Standard Practice for Thermographic Inspection of Insulated Installations in Envelope Cavities of Frame Buildings	ASTM International	2015
5 <i>ASTM E1105-15, Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference</i>	ASTM International	2015
6 ASTM E631, Terminology of Building Constructions	ASTM International	2015
7 ASTM E2947, Standard Guide for Building Enclosure Commissioning	ASTM International	2016
8 ASTM C1193-16, Standard Guide for Use of Joint Sealants	ASTM International	2016
9 ASTM E2813, Standard Practice for Building Enclosure Commissioning	ASTM International	2018
10 ASTM E329-21, Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection	ASTM International	2021
11 CSA Z320-11, Building Commissioning Standard	CSA America, Inc.	2011
12 CSAZ5000-18, Building Commissioning for Energy Using Systems	CSA America, Inc.	2018
13 CSA S478-2019, Guideline on Durability in Buildings	CSA America, Inc.	2019
14 IIBEC Code of Ethics https://iibec.org/membership/code-of-ethics/	IIBEC	2022
15 ISO 21105-1 Performance of Buildings – Building Enclosure Thermal Performance Verification and Commissioning - Part 1 General Requirements	ISO	2019

*This list is representative of best practices publications utilized. Review of these publications is not intended as the sole preparation for the exam. Each applicant should prepare accordingly with training, courses, and/or other publications which may be deemed appropriate for the individual's background, experience, and education.

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As part of the exam revision process, the committee of subject matter experts systematically compiled a list of domains that relate to the responsibilities, knowledge, and skills associated with acceptable performance within the building enclosure commissioning. This list provided the organizational framework for the exam and is included below. The percentage of questions on the exam from each section is indicated.

(Note: BECx acronym = building enclosure commissioning)

Sections	Section/Domain Title	Percentage of questions from section on exam
SECTION 1	BECX CORE COMPETENCIES	18.8%
Domain 1.1	Demonstrate knowledge of building enclosure systems and material science.	
Domain 1.2	Demonstrate knowledge of procurement and project delivery.	
Domain 1.3	Demonstrate knowledge of contract documents and construction administration.	
SECTION 2	BECX PRE-DESIGN	21.2%
Domain 2.1	Determine and communicate basic owner project requirements (OPR) related to the building enclosure.	
Domain 2.2	Relate basis of design (BOD) to building enclosure requirements.	
Domain 2.3	Create building enclosure commissioning (BECx) plan.	
SECTION 3	BECX DESIGN	20%
Domain 3.1	Evaluate design and construction alternatives against OPR.	
Domain 3.2	Facilitate communication plan related to OPR, BOD, and BECx plan.	
Domain 3.3	Evaluate BECx team.	
SECTION 4	BECX BIDDING AND NEGOTIATION	9.4%
Domain 4.1	Demonstrate knowledge of contract documents and submittals.	
Domain 4.2	Develop testing and observation schedule.	
SECTION 5	BECX CONSTRUCTION	21.2%
Domain 5.1	Observe workmanship versus contract documents and mock- ups.	
Domain 5.2	Compare contractor's QA and QC to contract documents.	
Domain 5.5	Explain scope, purpose, and intent of testing; evaluate testing firms and laboratories.	
SECTION 6	BECX OCCUPANCY & OPERATIONS	9.4%
Domain 6.1	Compile maintenance and system manual.	
Domain 6.2	Develop closeout documentation.	
	TOTAL PERCENTAGE	100%

CBECxP® SAMPLE EXAM QUESTIONS

The following sample questions are provided solely to illustrate the style and format of the CBECxP exam. They have never appeared on an actual exam and will not be used on future exams. These examples are for practice only and are not intended to represent the full scope of exam content.

BECX CORE COMPETENCIES

1. The owner of a data center in climate zone 2 is considering eliminating the vapor retarder in the roof assembly as part of value engineering. The facility will be operated with 50% relative humidity (RH) at 70°F (21.1°C). Under which conditions should the owner accept this option?
 - A. If the building houses equipment and the project is on-budget
 - B. If vapor retarders are not necessary for water tightness of a roof assembly
 - C. If the project is over budget and there are other means for controlling diffusion
 - D. If the selection and placement of the remaining environmental control layers will effectively control vapor diffusion
2. What is AAMA/WDMA/CSA 101/I.S.2/A440 NAFS?
 - A. North American Façade Standard
 - B. National Aluminum Façade Standard
 - C. National Aluminum Fenestration Standard
 - D. North American Fenestration Standard/ Specification
3. What organization is represented by the acronym AAMA?
 - A. American Asbestos Manufacturers Association
 - B. American Air-Barrier Manufacturers Association
 - C. American Architectural Manufacturers Association
 - D. Architectural Assemblies Manufacturers Association

BECX PRE-DESIGN

4. What is the **BEST** definition of Building Enclosure Commissioning (BECx)?
 - A. A process to plan, test and ensure watertight delivery of a structure
 - B. A process to complete drawings and specifications to ensure watertight delivery of a structure
 - C. A quality assurance process from design through occupancy that ensures optimal performance
 - D. A quality assurance process to verify that a structure when delivered meets the Owner's Project Requirements (OPR)
5. To ensure the **MOST** effective Building Enclosure Commissioning (BECx) program for a project, who should retain the Certified Building Enclosure Commissioning Provider (CBECxP)?
 - A. Owner
 - B. Architect
 - C. Design engineer
 - D. Construction manager
6. What is sensible energy?
 - A. Total energy in a given amount of air at one known condition
 - B. Heat loss or gain that causes changes in the air's dry bulb temperature
 - C. Amount of energy a well-designed heating, ventilation, and air conditioning (HVAC) system utilizes due to smart sensors
 - D. Heat associated with a change in phase and is representative of a change in the air's moisture content with no change in dry bulb temperature

CBECxP® SAMPLE EXAM QUESTIONS

7. What is a characteristic of specific humidity?

- A. It is unaffected by barometric pressure
- B. It is related to humidity at a specific temperature
- C. It is related to the mass of water vapor compared to dry air in a column of moist air
- D. It is directly calculated from the rate of water diffusion and column of condensation at a vapor retarder

8. Which is typical of moisture transport by vapor diffusion?

- A. It is significantly lower than moisture transport from air leakage.
- B. It is equal to moisture transport from air leakage and is not critical.
- C. It only occurs in cold climates therefore moisture transport is not critical.
- D. It can be greater by a factor of 50 than moisture transport from air leakage.

BECX DESIGN

9. In order to demonstrate the OPR has been met for a building's curtain wall system with regard to water infiltration testing, which field testing option may be specified?

- A. ASTM E1105 and AAMA 501.2
- B. ASTM E331, ASTM C1601, and AAMA 501.2
- C. ASTM D5957, ASTM E1105, and AAMA 501.2
- D. ASTM E1105, ASTM E331, and ASTM E2268

10. What is the order of importance of control layers in a cold climate?

- A. Air control layer, water control layer, vapor control layer
- B. Radiant barrier, water control layer, vapor control layer
- C. Water control layer, air control layer, vapor control layer
- D. Water control layer, vapor control layer, air control layer

11. What are the **MOST** effective strategies for air/moisture removal within a building enclosure, in order of importance?

- A. Diffusion, ventilation, drainage
- B. Drainage, ventilation, diffusion
- C. Ventilation, diffusion, drainage
- D. Ventilation, drainage, diffusion

12. During which phase or sub-phase must the first Initial Design Review (IDR) be performed?

- A. Design phase as directed by the owner
- B. Schematic design subphase as directed by the architect
- C. Design development subphase as directed by the owner
- D. Construction document subphase as directed by the contractor

13. During the design development subphase, which document records the recommended types and frequency of tests, advises of the consequences of failed tests, and outlines inspection protocols?

- A. Updated Basis of Design (BoD)
- B. Updated Owner's Project Requirements (OPR)
- C. Updated Building Enclosure Commissioning (BECx) plan
- D. Subcontractor's quality assurance/quality control (QA/QC) plan

CBECxP® SAMPLE EXAM QUESTIONS

BECX BIDDING AND NEGOTIATION

14. For a new data center project located in a cold climate, consider this roof assembly as designed from exterior to interior.

- » Single-ply membrane roof
- » Gypsum roofing cover board
- » Single 4-inch layer of polyisocyanurate insulation
- » Cementitious substrate board
- » Vented steel metal deck
- » 24-inch mechanical space
- » Lay-in ceiling tile

Which component of this roof assembly is **BEST** suited, with the italicized revision, to function as the air barrier?

- A. Gypsum roofing cover board with the application of a self-adhered membrane
- B. Single 4-inch layer of polyisocyanurate insulation increased to 5 inches
- C. Cementitious substrate board with the application of a self-adhered membrane
- D. Lay-in ceiling tile installed in an air-tight manner

15. Which IIBEC governing body administers the collection of Fundamental Canons and Rules of Practice outlining a CBECxP's professional duties and responsibilities?

- A. Ethics Committee
- B. Board of Directors
- C. Technical Advisory Committee
- D. Codes and Standards Committee

16. When a Certified Building Enclosure Commissioning Provider (CBECxP) believes a professional colleague has violated acceptable bidding practices by bribing a prospective client, the CBECxP is encouraged to initiate a complaint with which IIBEC governing body?

- A. Ethics Committee
- B. Board of Directors
- C. Advocacy Committee
- D. Codes and Standards Committee

17. Which IIBEC governing body can amend the IIBEC Code of Ethics?

- A. Ethics Committee
- B. Board of Directors
- C. Advocacy Committee
- D. Codes and Standards Committee

18. Per ASTM E2813 – Standard Practice for Building Enclosure Commissioning, which type of testing requirement is *in situ* field testing for water penetration of all horizontal surfaces?

- A. Optional
- B. Selective
- C. Mandatory
- D. Pre-determined

BECX CONSTRUCTION

19. Which is **BEST** to use for developing a system installation checklist?

- A. Subcontractor's verbal directions
- B. Construction manager's field notes
- C. Manufacturer's written installation instructions
- D. Verbal advice provided by the installer's field supervisor

20. What is quality assurance?

- A. Finding defective work after it is installed
- B. Full-time project oversight of work in progress
- C. Intermittent reviews of the process of work in progress
- D. Preventing installation of a defective item before it is installed

CBECxP® SAMPLE EXAM QUESTIONS

21. Who is responsible for documenting that all tests required in ASTM E2813 for compliance with fundamental or enhanced building enclosure commissioning (BECx) have been performed and have satisfied the performance requirements specified for the project?

- A. Architect
- B. Building enclosure consultant
- C. Testing agency representative
- D. Certified Building Enclosure Commissioning Provider (CBECxP)

BECX OCCUPANCY & OPERATIONS

22. Which document is developed through the Certified Building Enclosure Commissioning Provider (CBECxP) process and outlines a building's upkeep?

- A. Commissioning plan
- B. Certificate of occupancy
- C. Quality assurance report
- D. Operations and maintenance manual

23. What is ASTM E1186?

- A. Air Leakage Site Detection in Window Assemblies
- B. Water Leakage Site Detection in Building Envelopes and Waterproofing
- C. Air Leakage Site Detection in Building Envelopes and Air Barrier Systems
- D. Vapor Diffusion Site Detection in Building Envelopes and Vapor Barrier Systems

24. Which standard test method is used for measuring the Air Leakage Rate of a Large or Multizone Building?

- A. ASTM E779
- B. ASTM E1258
- C. ASTM E1827
- D. ASTM E3158

CBECxP® SAMPLE EXAM ANSWERS

Note your answers. Review the appropriate document(s) in those areas to better understand the rationale behind the indicated correct answer. Take advantage of the programs provided by IIBEC, including courses on the national and regional levels. IIBEC provides [Recommended Courses](#) for pursuing the CBECxP certification. These courses are available through the IIBEC education storefront, [LearnUpon](#). While IIBEC provides recommended courses to support exam preparation, the successful completion of any course or training activity does not imply or guarantee a passing result on the CBECxP certification exam.

1. D
2. D
3. C
4. D
5. A
6. B
7. C
8. A
9. A
10. C
11. B
12. A
13. C
14. C
15. A
16. A
17. B
18. C
19. C
20. C
21. D
22. D
23. C
24. D



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