

# FACTSHEET FOR CBX<sup>®</sup> & CDAA<sup>®</sup> LEVEL 1

Preparation and  
exam tips,  
curriculum  
topics and  
sample  
questions



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Lucerne University of  
Applied Sciences and Arts

**HOCHSCHULE  
LUZERN**

Information Technology  
FH Zentralschweiz



**Factsheet**

**CBX® Level 1 & CDAA® Level 1**

**Message from the DEC Institute**

*Well done on taking the first step towards becoming a DEC certified professional. Participating in lifelong learning demonstrates a commitment to professional excellence. The DEC Institute has created an ecosystem of institutions and leading industry players to help guide your personal development as you become a practitioner in the blockchain and digital assets industry. Stay competitive in this fast-paced environment with our collection of professional learning courses and certifications.*

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**1. Acknowledgement of Exam Syllabus & Parameters**

Before attempting the DEC Institute's exam,

1. I confirm that I have read the syllabus (available after registration), know the exam's scope, and have prepared by studying the topics or learning this knowledge through practical experience.
2. I understand that this exam consists of 75 questions to be completed in 60 minutes.
3. I acknowledge that each of the questions has three options, and only one of them is correct.
4. I understand that for each question, I should pick the option that is the best option (that is most accurate or correct) as some options may be partially correct.
5. I acknowledge that some questions make use of generally well-known abbreviations used in the blockchain industry and that as part of my preparation or work experience, I am expected to be familiar with these.
6. I understand that some questions may be made more complex through the way they are written and worded, and I should endeavour to read all the questions and options in detail not to make easy mistakes.
7. I understand that a good pace for answering exam questions is to spend approximately slightly less than one minute per question.

## 2. Exam Overview

The DEC Institute currently offers two types of exam, the CBX Level 1 and CDAA Level 1. A summary of relevant information on these examinations is in the table below.

	CBX® Level 1	CDAA® Level 1
<b>Question Format</b>	Multiple-Choice	Multiple Choice
<b>Exam Duration</b>	60 minutes	60 minutes
<b>Number of Questions</b>	75	75
<b>Exam Results Availability</b>	Emailed within 1 hour of finishing the exam online	Emailed within 1 hour of finishing the exam online
<b>Pass level</b>	75%	75%
<b>Test attempts per order</b>	2	2

## 3. Familiarising Yourself with the DEC Exam Topics

The DEC Institutes exam’s curriculum focuses on a wide range of knowledge related to three topic areas of Technology, Business / Economics and Legal / Regulatory. The exams cover these topic areas with the following approximate weights:

	CBX® Level 1	CDAA® Level 1
<b>Technology</b>	45%	30%
<b>Business / Economics</b>	35%	35%
<b>Legal / Regulatory</b>	20%	35%

## 4. Curriculum Topics across CBX® and CDAA®

**Technology:** In this section, we explore how blockchain and Distributed Ledger Technology operate at a fundamental level. This includes understanding blockchain architecture, consensus mechanisms, cryptography, major blockchain solutions, different types of tokens, DApps and other topics. There is also some testing of technical knowledge of blockchain script and smart contract code.

**Business / Economics:** This section explores a more practical application of how blockchain and Distributed Ledger Technology is applied within our world. We cover stakeholders in the blockchain ecosystem, how blockchain relates to the Internet, enterprise blockchain solutions, tokenomics, blockchain applications across different industries and the topics of innovation and disruption as applied to blockchain.

**Legal / Regulatory:** In this section, we focus more in-depth on the legal and regulatory treatment of blockchain on a principles-based approach and more specific treatment of it in various major jurisdictions across the world. We cover different blockchain applications' legal status in multiple jurisdictions (Americas, Europe, Asia), why blockchain is challenging to regulate and how it fits in with current regulatory regimes.

For greater detail, see all the topics tested in the specific examination information on our website, or by studying the complete syllabus provided after the registration.

### **5. Keeping the Curriculum Relevant and Rigorous**

The DEC Institute has consulted both its Academic members and its Industry Partners to create the examinations. This is to make sure that the foundation knowledge necessary to be a practitioner in the blockchain industry and the latest topics relevant to the industry today are covered. For more information on the various academic and industry members of the DEC Institute, please have a look at our website.

### **6. Understanding the Multiple-Choice Exam Question Format**

Each multiple-choice item on the DEC Institute’s Level 1 exams consists of a question or a statement and three answer choices.

It is expected that you spend between 30 and 120 seconds per question on the exam. Some questions may require more time, and some less.

Two formats are used, which are:

1. Questions with three unique choices
2. Sentence completion with three unique choices

These two formats are divided between longer and shorter questions concerning the length of the question. Example question are in Appendix.

### **7. How To Prepare**

The DEC Institute does not currently have any materials that it offers for candidates to study for these exams. We recommend the various courses offered by our academic members and those created by our Industry members that usually go into depth on their technologies. Some of the recommended courses are:

Course provider	Course	Reference	Focus
Lucerne University for Applied Sciences and Arts – Information Technology	Certificate of Advanced Studies (CAS) – Blockchain (German)	<a href="https://www.hslu.ch/de-ch/informatik/weiterbildung/digital-value-creation/cas-blockchain/">https://www.hslu.ch/de-ch/informatik/weiterbildung/digital-value-creation/cas-blockchain/</a>	CBX®
Lucerne University for Applied Sciences and Arts – Information Technology	Certificate of Advanced Studies (CAS) – Crypto Finance & Cryptocurrencies (German)	<a href="https://www.hslu.ch/de-ch/wirtschaft/weiterbildung/cas/ifz/crypto-finance-and-cryptocurrencies/">https://www.hslu.ch/de-ch/wirtschaft/weiterbildung/cas/ifz/crypto-finance-and-cryptocurrencies/</a>	CDAА®

Frankfurt School of Finance & Management – Blockchain Center	Certified Blockchain Expert (English)	<a href="https://execed.frankfurt-school.de/en/home/individuals/it-digitalisation/certified-blockchain-expert">https://execed.frankfurt-school.de/en/home/individuals/it-digitalisation/certified-blockchain-expert</a>	CBX®
Frankfurt School of Finance & Management – Blockchain Center	Blockchain Masterclass (German)	<a href="https://www.frankfurt-school.de/home/research/centres/blockchain">https://www.frankfurt-school.de/home/research/centres/blockchain</a>	CBX® CDAA®
Frankfurt School of Finance & Management – Blockchain Center	Digital Assets: Seminarreihe zu Blockchain und Digitalisierung für Führungskräfte (German)	<a href="https://www.ifb-group.com/veranstaltungen/details/detail/News/digital-assets-seminarreihe-zu-blockchain-und-digitalisierung-fuer-fuehrungskraefte/">https://www.ifb-group.com/veranstaltungen/details/detail/News/digital-assets-seminarreihe-zu-blockchain-und-digitalisierung-fuer-fuehrungskraefte/</a>	CDAA®
University College London – Centre for Blockchain Technology	Introduction to Blockchain and Distributed Ledger Technology (English)	<a href="https://www.futurelearn.com/courses/demystifying-blockchain">https://www.futurelearn.com/courses/demystifying-blockchain</a>	CBX® CDAA®
International Institute of Information Technology - Hyderabad	Advanced Certification Program in Blockchain and DLT (English)	<a href="https://iiit-h.talentsprint.com/blockchain/index.html">https://iiit-h.talentsprint.com/blockchain/index.html</a>	CBX®

### **8. Exam Tipps**

1. Make sure you have gone through the syllabus and are familiar with the topics you will be tested on.
2. Read each question and each of the options carefully. Some questions are designed to be more complicated based on how they are written – be particularly careful when picking your answers for these.
3. You have 60 minutes to complete the exam – make use of your time! If you finish the exam with time to spare, make sure that you go back and check your answers.
4. Make use of the question flagging system to go back and check any questions that you were not entirely sure about.
5. Always pick the most accurate option as some options may be partially correct, but only one option is entirely correct.

### **9. Misconduct & Anti-Cheating Declaration**

Engaging in any form of misconduct whilst attempting this exam may lead to the voiding of your exam results and termination of your ability to take DEC Institute exams in the future.

Exam misconduct is considered any conduct or activity that compromises or attempts to compromise the integrity, reputation, security or validity of the DEC Institute's exams. This includes conduct that occurs during registration and after that in the period before, during and after taking the DEC Institute's exams.

Misconduct includes, but is not limited to:

1. Giving or receiving assistance from others when completing the exams
2. Taking screenshots, photos or notes on the exam questions and answers when completing the exams
3. Sharing any details on the questions and answers of the exams with others
4. Taking part in the act of impersonation or other forms of cheatings
5. Utilising unauthorised DEC Institute exam questions, with or without answers, when you are in the process of preparing for or completing the exam
6. Sharing or requesting others to share with DEC Institute exam content in any form
7. Using any form of mobile phone, camera, headset, tablets, computers, wearable devices, photographic devices or other devices that seek to give an advantage or to copy materials from the exam (except for the device on which you are taking the exam under exam conditions)
8. Utilising unauthorised DEC Insistute materials that you know or have a reasonable basis violate the DEC Institutes copyright
9. Copying, distributing, reselling or misusing any DEC Institute exam offer codes or discounts
10. Misrepresenting information at registration
11. Any other conduct that could be considered by the DEC Institute (at its sole discretion) to compromise the integrity, validity, reputation or security of the DEC Institute's exams or the DEC Institute.

## **10. Example Questions**

### **Example 1: Question (Short length)**

Which of the following Ethereum token types supports non-fungible tokens?

- A. ERC20
- B. ERC721
- C. ERC221

### **Example 2: Question (Long length)**

Within the blockchain ecosystem, there are two types of exchanges: centralised exchanges and decentralised exchanges. Which one of the following statements correctly describes the differences between a centralised exchange and a decentralised exchange?

- A. A centralised exchange always writes executed trades to a blockchain, whereas a decentralised exchange does not
- B. A centralised exchange often uses market makers, whilst decentralised exchanges only use order books
- C. A centralised exchange is order book based, whilst a decentralised exchange uses liquidity pools

Example 3: Sentence completion (Short length)

Central Bank Digital Currencies can:

- A. Only operate on Distributed Ledger Technology
- B. Only operate in some countries if the law is changed to accommodate them
- C. Only operate successfully in a wholesale setting

Example 4: Sentence completion (Long length)

Consortia have been created in certain industries to facilitate blockchain adoption as they can potentially overcome the cooperation paradox. In the context of blockchain, the cooperation paradox refers to

- A. The necessity to compete in an industry where there are strong cooperations
- B. The necessity for cooperation to occur in an industry where there is intense competition
- C. The fact that blockchain solutions can only be successfully implanted in industries if consortia are used

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**DEC Institute**

Suurstoffi 1, 6343 Rotkreuz, Switzerland

[www.decinstitute.org](http://www.decinstitute.org)

[info@decinstitute.org](mailto:info@decinstitute.org)

[www.linkedin.com/company/dec-institute](http://www.linkedin.com/company/dec-institute)