

Certified in Blockchain Ethereum Developer (CBED)

Global Certification Program

- ✓ Globally lifetime Valid Certification
- ✓ Lifetime Valid Certification
- ✓ AI based Roleplay & Simulations
- ✓ Two Exam Attempts



An Overview

what you can expect from this program

The Certified Blockchain Ethereum Developer (CBED) certification validates expertise in developing decentralized applications (DApps) and smart contracts on the Ethereum blockchain. It covers key topics such as Solidity programming, Ethereum Virtual Machine (EVM), gas optimization, token standards (ERC-20, ERC-721), and decentralized finance (DeFi) integration. Designed for developers, blockchain enthusiasts, and tech professionals, CBED equips individuals with the skills to build secure, scalable, and efficient Ethereum-based solutions. This certification is ideal for those looking to advance their careers in blockchain development and Web3 innovation.

	Type	Online self-paced learning, Mocks
	Language	English (including subtitles)
	Access	12 months
	AI based Role play	Prepare yourself for career with AI based roleplay
	Digital certificate upon completion (2 Attempts)	
	Card Payment, Bank Transfer	
	Reading materials & Reference Templates	
	100% money back guarantee*	

GSDC Introduction

Welcome to the Global Skill Development Council (GSDC)!

As an independent, vendor-agnostic certification organization, we empower professionals worldwide.

Leading MNC organizations and global universities recognize our certifications. With a diverse portfolio of over 100+ programs, including L&D, HR, SRE, DevOps, Agile, Six Sigma, and Cyber Security, we've certified over 50,000 professionals.

Partnered with 50+ global training organizations, GSDC is your gateway to unlocking endless opportunities.

Join us today and let your skills soar to new heights!



Introduction

Certified Blockchain Ethereum Developer



The GSDC Certified Blockchain Ethereum Developer (CBED) certification exam validates your expertise in Ethereum development and blockchain technology. This industry-recognized certification demonstrates your proficiency as a certified Ethereum professional and signifies your mastery of the essential skills required to design, develop, and deploy secure and scalable Ethereum-based applications.

By being a Certified Blockchain Ethereum Developer, you showcase your in-depth knowledge of smart contracts, decentralized applications (DApps), and the underlying Ethereum blockchain architecture. This certification distinguishes you as a competent Blockchain Ethereum Developer, enabling you to contribute effectively to blockchain projects and gain a competitive edge in the rapidly evolving blockchain industry.

Take the next step in your career and validate your skills with the GSDC Certified Blockchain Ethereum Developer (CBED) certification exam.

Learning Objective

- Certify proficiency in Ethereum development and blockchain.
- Master secure and scalable Ethereum application development.
- Deep understanding of Ethereum's blockchain architecture.
- Gain a distinct advantage in the evolving industry.
- Showcase expertise as a certified Ethereum professional.
- Harness the power of smart contracts and DApps.
- Empower contributions to impactful blockchain projects.

OBJECTIVES OF BLOCKCHAIN ETHEREUM DEVELOPER

Curriculum

1.Introduction to Smart Contracts:

- Smart Contracts
- Blockchain Basics
- Ethereum Virtual Machine (EVM)

2.Solidity in Depth:

- Contracts
- Types
- Units and Globally Available Variables
- Expressions and Control Structures
- Contracts
- Libraries

3.Implementation:

- Implement web3.js
- Write and compile Solidity smart contracts
- Create secure smart contracts
- Deploy smart contracts in both the live and test Ethereum networks
- Calculate Ethereum gas costs
- Unit test smart contracts
- Unit test smart contracts
- Run an Ethereum node on the development machine

4.Common Design Patterns:

- Restricting Access
- Factory Patterns
- Token Systems
- Registries
- Voting Systems

5.Blockchain And Smart Contracts:

- What is Blockchain and how does it work?
- Bitcoin vs Ethereum
- Smart Contract
- How you can use Smart Contracts?
- Advantages of Smart Contracts
- Solidity
- LAB TASK
- Types of Variables in Solidity
- Public and Private Code
- Public Variables and Functions
- Internal Functions
- External Functions
- Smart Contract Constructors
- Constant Variables
- Setting Variables

6.Smart Contracts With Web3.js :

- Installing & Running the Ethereum Test RPC
- Installing Web3.js
- Changing the Environment in Remix
- Creating the UI
- Connecting to & Interacting with the Smart Contract Using Web3.js
- SOLUTION

7.Smart Contract Events With Web3.js:

- AIM
- The Current Contract
- Defining the Smart Contract Event
- Updating the UI

8.Functions, Mappings, And Structs

- Functions
- Mappings
- Structs
- The Smart Contract
- Creating a Modifier
- Using the Modifier
- Web3 UI Modifier Handling
- LAB
- Creating a Struct
- Creating the Mapping
- Map Addition
- Get from the Mapping
- The Full Contract
- Count from Map

9.Inheritance And Deployment:

- Object-oriented programming
- Inheritance
- LAB
- Current Contract
- Creating a Base Contract

- Changing from Strings to bytes
- Continuing the Project
- Installing MetaMask
- Deploy Contract to the Ropsten Test Network
- Update the HTML Form
- Update the JavaScript
- Using the App

10.Embark Framework And Its Deployment:

- Blockchain (Ethereum)
- Decentralized Storage (IPFS)
- Decentralized Communication
- Web Technologies
- Installing Embark Framework
- Hello World with Embark Framework
- First Contract Deployment with Embark Framework

11.Solidity Smart Contracts Testing

- Unit Testing in Solidity
- Security and Vulnerability Testing
- Gas Optimization and Performance Testing

12.Contracts Management With Factories

- Factory Pattern in Smart Contracts
- Upgradeability and Proxy Contracts
- Interfacing and Access Control

13.IPFS Files Hosting:

- IPFS
- FILES HOSTING

14.End-to-end Development Of Dapp:

- Setup the Project
- Program the Smart Contract
- Create the Front-end of the application
- Deploy the App with IPFS

15. Tools, Certifications, and Real-World DApp Projects

- Key Tools: MetaMask, Remix IDE, Ganache, Truffle, Web3.js, Embark
- Certification Preparation: Ethereum Developer Certification, Solidity Developer Certificate
- Hosting Decentralized Applications Using IPFS
- Capstone Project: Full DApp Lifecycle – From Smart Contract to Frontend and Deployment
- Industry Case Studies: Finance, Gaming, Voting, and Identity

Unleash Unlimited Potential

All GSDC certifications come with a lifetime membership, offering you a world of benefits to fuel your professional growth.



Expert Created Learning Material

Learn from knowledge shared by Top Industry Experts with 15+ yrs of experience.



Access to Global Conferences

Be a part of GSDC thriving learning community around the world, sharing knowledge from across the world.



Speaker invites @ GSDC Webinar Series

Share your knowledge with world at GSDC global webinar series, share your expertise and learn from others.



Downloadable Resources

Get access to templates and reference documents which will help you to do your day to day tasks easier.



Certificate Upgrades

Get complimentary certificate upgrades to keep up with the latest updates in processes and frameworks.



Newsletters, blogs with industry insights

Get newsletters, announcements and articles curated by experts direct to your inbox.



AI Based Role Play

Learn to implement applicability of knowledge with real life simulation based games.

What You Get In this Certification Program?

- Engaging digital learning videos
- Exclusive access to Global thought leader sessions & case studies
- Downloadable and implementable resources to support practical application
- Two mock exams with unlimited attempts for comprehensive preparation
- Certification exam voucher with 1-year validity
- Two attempts for certification exam

What our Candidates Saying?

We greatly appreciate the feedback from our program participants on Trustpilot. With an impressive average rating of 4.7 out of 5, their reviews highlight the positive experiences and value they have gained from our program.



Global Skill Development Council - GSDC

Reviews 178 • Excellent

★ ★ ★ ★ ★ 4.7 ⓘ

✓ VERIFIED COMPANY



2 reviews IN

★ ★ ★ ★ ★ Jul 18, 2023

I had a experience with GSDC with their...

I had a experience with GSDC with their SRE course and it was very good. The speakers were very knowledgeable and kept it very interactive. Thanks the GSDC team for this!

Date of experience: April 13, 2023

Useful Share



1 review NG

★ ★ ★ ★ ★ Jul 11, 2023

The learning portal was so seamless

The learning portal was so seamless, and user friendly. The course are so detailed, easy to understand, great lecturers. Safe to say the best learning platform I've used so far. I would recommend learning from GSDC to anyone. You sure will get a value for your money.

Date of experience: July 08, 2023

Useful Share



1 review IN

★ ★ ★ ★ ★ Sep 25, 2023

GSDC has been doing a great job in making learners gain knowledge!

GSDC has been doing a great job in making the learners find right opportunities to gain knowledge for business! These two days were filled with knowledge and insights!

Date of experience: September 25, 2023

Useful Share



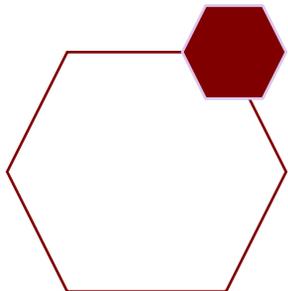
1 review AE

★ ★ ★ ★ ★ Aug 15, 2023

Certified Learning & Development Professional CLDP

I took the certification course "Certified Learning & Development Professional CLDP" approved by the GSDC - Global Skill Development Council. So grateful to the professional team at the GSDC for this enlightening opportunity; namely, Ruguzeno, for her dedication, responsiveness, and constant support throughout this learning journey. And very special thanks to the amazing trainer and coach Deepak Sharma for the great weekly live sessions which I believe are the highlight of this certification programme. His knowledge, expertise, and outstanding skills have made the course very insightful, engaging, and enjoyable!

Date of experience: July 21, 2023



Expert-Led Generative AI: Learn, Connect, Grow



Interactive Learning Experience:

Ask questions, discuss case studies, and receive implementation guidelines directly from expert, enhancing your understanding of complex AI topics



Lifelong Learning Journey:

Enjoy lifetime access to these sessions, ensuring you stay updated with the latest trends and continuously grow your AI expertise



Career-Boosting Network:

Connect with fellow professionals in the field, creating valuable relationships that can propel your career in the world of Generative AI

AI-Based Interview Practice Platform



- Engage With Real Time AI Interview Questions.
- Practice Questions Tailored with Your Expertise.
- Validate your Knowledge of subject Matter.

Capstone Project



- Apply Your Skills in Real World Scenario.
- Learn Methodologies Aligned to Your Expertise.
- Validate Skills and Knowledge Gained through the Certification.
- Showcase Expertise via a Capstone Project.

Enrollment-Options

Option-1

Certified in Blockchain Ethereum Developer With E-Learning

Fast-track your career by learning a new skill and earning a certificate

- ✓ Access expert videos and weekend 2-hour live sessions every Saturday with lifetime access
- ✓ 1 Certification Program
- ✓ Two Exam Attempts
- ✓ Lifetime Valid Certification
- ✓ E-Learning Library Access
- ✓ Downloadable Resources-Book of Knowledge, Templates
- ✓ GSDC Membership

ENROLL NOW

Option-2

Bundle

**Create your own bundle with
3 certification program**

- ✓ 3 Certification Program
- ✓ Access expert videos and weekend 2-hour live sessions every Saturday with lifetime access
- ✓ Two Exam Attempts
- ✓ Lifetime Valid Certification
- ✓ E-Learning Library Access
- ✓ Downloadable Resources-Book of Knowledge, Templates
- ✓ GSDC Membership

ENROLL NOW

Option-1 Certified in Blockchain Ethereum Developer with E-Learning

Certified In Blockchain Ethereum Developer with Digital Learning

Fast-track your career by learning a new skill and earning a certificate

- ✓ E-Learning from Industry Experts
- ✓ 1 Certification Program
- ✓ Two Exam Attempts
- ✓ Lifetime Valid Certification
- ✓ Downloadable Resources



Option-2

Make Your Own Certified in Blockchain Ethereum Developer Level Bundle

**Enrich your skills and advance your career with our exclusive bundle.
Get certified in the following:**

- Certified Blockchain For Business Professional
- Certified Blockchain Architect
- Certified Blockchain Professional
- Certified Blockchain HyperLedger Developer

Expand your expertise, design impactful learning experiences, and master your skills.

BUY ANY

3

CERTIFICATIONS

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Register Now



100%
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GUARANTEE

100% Money Back Guarantee!

At GSDC, quality is our top priority. Our certification programs are designed to foster professional growth and ensure learning satisfaction. If you do not pass the certification exam after two attempts, we offer a 100% money-back guarantee.

- No Questions Asked*
- 100% Amount Refund*
- No Processing Fees*

Thank You



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