ON-DEMAND COURSE - SYLLABUS

BLOCKCHAIN & BITCOIN INTENSIVE

Duration: 10 Hours

Delivery: Online On-Demand / Self-Paced Mentor Supported - 10 Hours

Instructor(s): Bryant Nielson, Adi Ben-Ari, Kartik Natarajan

Office Hours: 10:00 AM to 6:00 PM Eastern Standard Time

Email: studentsupport@blockchainhub360.com

Prerequisites: None

Continuing Education Units: 1

Microcredential Exam: Cryptocurrencies
Certification Body: Blockchain Certification Association

Course Overview:
The Blockchain and Bitcoin Intensive course offers a deep look into the foundational blockchain concepts. Providing a deep and thorough understanding of the concepts that underpin how the world of blockchain works and gain a grasp of how mining works in the bitcoin world. The course to cover use cases in detail to really understand how cryptocurrencies work and why they work. Learn about new concepts like the DAO and the huge implications this technology has for the world.

Course Composition:
Online On-Demand: Blockchain & Bitcoin Intensive Modules 1 - 7

Learning Objectives:
- Explore the origins of blockchain and understand how the technology will disrupt many industries
- Recognize Bitcoin and Ethereum as the Blockchain platform pioneers
- Comprehend and articulate the new world of DAO (Decentralized Autonomous Organizations)
- Examine digital currency and payments

Demonstration of Learning Outcomes:
At the conclusion of the Blockchain and Bitcoin Intensive course students will be able to understand and articulate the core concepts of DAOs and how cryptocurrencies and tokenization will not only alter the financial industry but also redefine how organizations conduct business.

Evaluation:
Evaluation is based on participation and a final exam.
Weighted:

50% participation
50% on the final grade

80% overall grade is required in order to receive a Certificate of Completion.

Grading Policy:
Pass or Fail. No Credit (NC).

Attendance Requirements:
Students are expected to complete all online self-paced modules and assessments. Certificate of Completion will not be issued until all online modules are complete, including the final exam.

Student conduct and etiquette:
Students will be expected to be courteous in their conduct and communications to the instructor and classmates at all times whether such conduct or communication is in person, by telephone or electronic communications.

Behavior that persistently or grossly interferes with instructor or other student activities is considered disruptive behavior and may be subject to disciplinary action. Such behavior inhibits other students' ability to learn and an instructor's ability to teach. The instructor may require a student responsible for disruptive behavior to leave the learning environment pending discussion and resolution of the problem and may report a disruptive student to the Student Affairs Office

Note: Disruptions, or any other distraction in the learning environment may result in a failing grade.

Course Evaluations
Course evaluations and program surveys are important components of the educational process. Students are encouraged to complete the student course evaluation form issued at the conclusion of the course. The evaluation is anonymous.

Computer/Information Literacy Expectations for Students enrolled in this class
Students in this class are expected to:

1. Use a word processing program for writing assignments (e.g., Microsoft Word)
2. Be able to access assigned websites through the internet
3. Have access to PC or mobile device for participation in course content

Course Module Overview:

BLOCKCHAIN & BITCOIN INTENSIVE – 7 MODULES

Module 1: Bitcoin Concepts
Origins of Blockchain
Cryptography
Software and Networks
Mining & Proof of Work

Module 2: Technical Bitcoin Limitations
Proof of Work
Network and Hardware
Transaction throughput, volumes and block size.

Module 3: Bitcoin Limitations
Mining and Incentives
Merchant Acceptance
Price volatility
Mining costs

Module 4: From Blockchain V1 to Blockchain V2
Ethereum
Proof Stake and Authority
Smart Contracts and Sidechains

Module 5: Blockchain as the New Database
Decentralized Consensus
The blockchain and blockchain services
Smart Contracts and Smart Property

Module 6: Blockchain V2 Use Cases
Payments
Colored Coins and Digital Assets
Identity
Smart Contacts, voting, land registry and Trade Finance

Module 7: Preparing your firm for Blockchain
Technology
Private vs Public Blockchain
Sidechains
BaaS—Blockchain as a Service
Decentralized applications and smart contracts
Barriers to blockchain adoption
Industry collaboration
Creating a blockchain ecosystem