

## ON-DEMAND COURSE - SYLLABUS

### BLOCKCHAIN AND THE HEALTHCARE SECTOR

<b>Duration:</b>	10 Hours
<b>Delivery:</b>	Online On-Demand / Self-Paced Mentor Supported - 10 Hours
<b>Instructor(s):</b>	Bryant Nielson
<b>Office Hours:</b>	10:00 AM to 6:00 PM Eastern Standard Time
<b>Email:</b>	studentsupport@blockchainhub360.com
<b>Prerequisites:</b>	None
<b>Continuing Education Units:</b>	1.0
<b>Microcredential Exam:</b>	Blockchain Healthcare
<b>Certification Body:</b>	Blockchain Certification Association

#### **Course Overview:**

The Blockchain for the Healthcare Sector course provides an in-depth understanding of blockchain's impact on the healthcare marketplace, medical records, billing, and accounting. Attendees don't have to have any blockchain knowledge.

#### **Course Composition:**

Online On-Demand: Blockchain and the Healthcare Sector Modules 1 - 5

#### **Learning Objectives:**

- Analyze real-life use cases in the Healthcare Sector
- Construct a strategy to make use of blockchain for varying healthcare industry needs
- Comprehend blockchain fundamentals
- Explain smart contracts and consensus protocols
- Compare public vs. private chains required for different blockchain solutions.
- Learn about various blockchain platforms – Open Source and Commercial

#### **Demonstration of Learning Outcomes:**

Upon completing the Blockchain for the Healthcare Sector course, students will understand and articulate the core concepts of Blockchain technology as it relates to the Healthcare industry. Graduates can begin to work with industry stakeholders to discuss and deploy solutions to improve healthcare services, supply chains (PPE, Pharmaceuticals, and even organs), and patient records.

**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. A Certificate of Completion will not be issued until all online modules are complete, including the final exam.

**Student conduct and etiquette:**

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

Behavior that persistently or grossly interferes with the 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 essential components of the educational process. Students are encouraged to complete the student course evaluation form issued after 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 AND THE HEALTHCARE SECTOR - 5 MODULES****Module 1 – Blockchain 101**

Providing learners with a baseline understanding of the primary concepts of the technology

How does Blockchain work

Blockchain Properties

Recognize Public, Private and Hybrid Blockchains

Blockchain Security

DLT beyond Cryptocurrencies

Discussion: Identify the Security Risks of Blockchain

## **Module 2 – Blockchain and the Healthcare Sector**

Recognizing the need for Blockchain

Introducing the size and scope of Blockchain's impact on Healthcare.

Identifying the needs of the healthcare sector

Patient records

Healthcare Security Costs

Blockchain's Potential Impact

## **Module 3 – Blockchains Impact on Healthcare**

Healthcare Sector Issues and Pain Points

Blockchain Use-Cases within the Healthcare Sector

The Public Health Sector

HIPPA and the GDPR

The "Big-Pharma" Sector

Blockchain for the Supply Chain

## **Module 4 – Blockchain and Accounting**

The Current State of Blockchain Technology

Potential for Blockchain in Accounting and Audits

Identifying the Regulatory and Compliance Opportunities

Blockchain Implementations

Tracking Ownership of Assets

Transaction Processing

Reconciliation and Control

Impact on Audit Practices

Digital Identities

## **Module 5 - Preparing Your Firm For Blockchain**

Evaluating Technology

Smart Contracts

Blockchain As A Service

Hurdles to Adoption

Blockchain Barriers

Interactive Exercise

Action Plan