



PRESENTS

# POST GRADUATE PROGRAM BLOCKCHAIN AND THE SUPPLY CHAIN (MBA- BSCM)

New technologies are presenting promising opportunities for improvement across the supply chain. Using blockchain in the supply chain has the potential to improve supply chain transparency and traceability as well as reduce administrative costs.



The India Blockchain Alliance was established with the purpose of mutual assistance in the field of business development, networking, cooperation and a joint approach to defending the interests of the members of the alliance. It also seeks to raise awareness of the importance of the blockchain technology among the professional and lay public, and, therefore, organizes various events and training courses. It also cooperates with the government authorities in the field of the relevant legislation.

The India Blockchain Alliance is a key player in the process of creating a setting that will transform India into a global blockchain destination. The members work harmoniously and in unison for the benefit of the individual and collective business development of blockchain companies.

Established in 2015, The India Blockchain Alliance (IBA) is the most influential voice in the blockchain industry. It is a not-for-profit organisation that promotes evidence-based adoption of Blockchain and Distributed Ledger Technologies (DLT) across the public and private sectors.

Our alliance is drawn from the worlds of Blockchain, Academia, Information Technology, Computer Science, regulators and policymakers in the field of distributed ledger technologies. IBA is a close-knit network of experts and organisations connecting policymakers, academics, blockchain engineers, venture capitalists and visionaries.



I B A V I S I O N & M I S S I O N

## MISSION

IBA aspires to see an India that leads the world in the adoption of blockchain technology that has transformed the economy and society to achieve significantly greater competitiveness, efficiency, service quality, social engagement and employment. IBA aims to encourage the responsible adoption of blockchain technology by industry and governments across India as a means to drive innovation in service delivery across all sectors of the economy.

## VISION

India Blockchain Alliance was founded on the premise that blockchains have the potential to transform many aspects of India's financial, social, and governance systems in ways that make them more decentralized, open, and equitable. Such transformations, however, will affect all country men and its important to ensure that all classes of stakeholders (private, public regulatory, academic, and more) are connected in open conversations about how use this science to benefit Indians and build India as a leader in blockchain technology.



PROGRAM SYNOPSIS

PRACTICAL ONLINE TRAINING

1-ON-1 SUPPORT

JOB ASSISTANCE & CAREER

MENTORSHIP

LIFETIME ACCESS & UPDATES

job  
opportunities



BRITISH AIRWAYS





## WHY BLOCKCHAIN IS A BIG CAREER OPPORTUNITY

- Blockchain is a universal open source digital ledger in which transactions are recorded chronologically and publicly.
- Blockchain enables swift transfer of money without Internet banking or intermediaries. All you need is computer access and Blockchain network.
- No wonder, businesses across industries—from real estate to messaging apps—are exploring the fastest-growing technology's potential to gain a competitive edge
- Blockchain will be the most in-demand hard skill in 2020, according to a new study by the educational subsidiary of professional social network LinkedIn
- There's been a 517% increase in demand for software engineers with blockchain development skills in the past year, according to a new report from job search site [Hired](#)
- Blockchain development skills ranked in the top three job openings in almost every global region
- Blockchain skills will get you double, or even triple, the salary of a software engineer



## COMPANIES NEED MUCH MORE BLOCKCHAIN TALENT

New research based on data from the employment-oriented networking platform LinkedIn shows that blockchain tops the list of most in-demand hard skills for 2020. The ranking of the most needed skills was made by looking at those that are in high demand relative to their supply. Demand was measured by identifying the skills listed on the career profiles of people who are getting hired at the highest rates. It divided the skills into two groups. Hard skills include specialized knowledge and technical abilities to handle a specific task, while soft skills are more about behavior and thinking, personal traits and cognitive skills.

This high ranking shows how rapid the technology is penetrating the business world, as blockchain wasn't even on the list a year ago. It has also beaten to the top other popular corporate buzzword fields such as cloud computing and artificial intelligence. The research further shows that blockchain is the most in-demand skill right now in the United States, the United Kingdom, France, Germany, and Australia.



## WHY BLOCKCHAIN AND SUPPLY CHAIN

Supply chains contain complex networks of suppliers, manufacturers, distributors, retailers, auditors, and consumers. A blockchain's shared IT infrastructure would streamline workflows for all parties, no matter the size of the business network. Additionally, a shared infrastructure would provide auditors with greater visibility into participants' activities along the value chain.

Blockchain has the potential to drive cost-saving efficiencies and to enhance the consumer experience through traceability, transparency, and tradeability. Hence there is a huge demand for blockchain professionals in the supply chain management sector.

## UNIQUE PROGRAM FEATURES

- 1-1 Mentoring
- Gain in-depth subject knowledge and expert insights from industry-driven comprehensive curriculum
- 24/7 access to study material & video lectures
- Global Faculty
- Live interactions with Blockchain experts and Corporate leaders
- Hands-on experience to solve corporate level Blockchain issues
- Live Projects
- Career guidance and support through leading recruitment partners
- Free Lifetime IBAMembership

## LEARNING METHODOLOGY



INTERACTIVE  
LECTURES



HIGH-QUALITY  
RECORDED VIDEO  
LECTURES



E-LEARNING  
ACTIVITIES



ILLUSTRATIVE  
PRESENTATIONS



CASE STUDIES,  
MINI-PROJECTS &  
ASSIGNMENTS



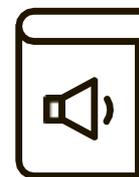
INDUSTRY  
WORKSHOPS



LIVE PROJECTS



CASE STUDIES,  
MINI-PROJECTS &  
ASSIGNMENTS



INSTRUCTOR-LED  
PRACTICE  
SESSIONS ON  
PLATFORMS

## ELIGIBILITY CRITERIA



Ongoing graduate program. Any stream. English language competence is must

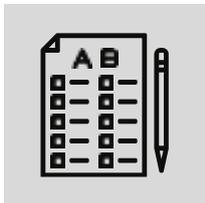


A Bachelor's or Master's degree in any discipline with a minimum of 50% aggregate marks, then you are qualified to take up the program.



Working professionals

## EVALUATION PROCESS



### PRACTICE QUIZ

- Be responsible for your own learning with quizzes at the end of each module.
- Test your subject understanding and determine your readiness for program completion.



### ASSIGNMENTS

- Apply concepts learned in each module with in-depth assignments designed to make you reflect, adapt and apply knowledge to real life scenarios.



### CASE STUDIES

- Get hands-on experience with real-life case studies
- Build a portfolio of demonstrable work by referring to these cases published at Harvard Business Publishing's case portal



### SEMESTER EXAMINATIONS

- Cumulative of quizzes and assignment to test the practical and conceptual knowledge of student

## CERTIFICATION



On successful completion of the program, earn a Certificate of Graduate Program in Blockchain Supply Chain Management from BlockEdu and IBA certified by FTI, the largest certification body in emerging technologies worldwide.

Add the certificate to your CV and improve your job/business prospects.



Get recognized! Upon successful completion of the program, IBA - FTI grants a verified digital certificate of completion to participants. This program is graded as a pass or fail; participants must receive 80 percent to pass and obtain the certificate of completion.

Note: After successful completion of the program, your verified digital certificate will be emailed to you in the name you used when registering for the program.

All certificate images are for illustrative purposes only and may be subject to change at the discretion of FTI-IBA



## CERTIFICATION BENEFITS

- Globally acknowledged certification from the leading credentialing authority in emerging technologies - FTI.
- Gain an in-depth understanding of the Supply Chain Blockchain based supply chain
- Implement your skills to optimize supply chain management
- Competitive advantage over others in Interviews



## CAREER ASSISTANCE

Enhance your career aspirations with assistance from our recruitment partners like CutShort.io, Virtual Job Fair and existing IBA network worldwide.

On successful completion of the program, equip yourself with sophisticated expertise to apply for jobs in Supply Chain Blockchain space in the roles of Smart Contract Developer, Blockchain Developers and Technical Architects, Blockchain Business Managers, Blockchain Consultant, Blockchain Expert and Blockchain Generalist.

Get connected with our Career Counsellor towards the end of the program to be interview-ready as per the current industry requirements.



## QUICK FACTS

- What does a Blockchain Professional in Supply Chain Industry do?

Blockchain-based supply chain expert implements the understanding of Blockchain technology to Increase Revenues and Decrease Costs while Improving Quality.

- What is the Growth Curve ahead

After you successfully complete the Program, you can have various opportunities in your professional growth.

Students can be:

- ◊ Blockchain and Supply Chain Professional
- ◊ Supply Chain Manager

What are the domains where Blockchain & Supply chain Professionals work?

- Retail
  - E-commerce
  - Banks
  - Telecom
  - FMCG
  - Manufacturing and other Domains
- 

When talking about blockchain use cases, production and supply chain management are two application areas that tend to come up first. But how would implementations like these actually look like in practice, and would they work on a technical level? What are the advantages, drawbacks and risks of using blockchain technology for supply chain and operational management in production processes? How can distributed ledger technology be used to secure and optimise production and supply chain management?

This course tackles all these questions and more. Designed to benefit a non-technical audience, the course aims to help you get a practical and critical understanding of blockchain use cases and applications in supply chain management and production. We will also dive into technical fundamentals, deployment patterns, and the ins and outs of smart contracts. By the end of this course, you should be able to evaluate supply chain and production-related projects for their operational merit, efficiency and overall effectiveness.

## CURRICULUM

**Module 1: Technical Fundamentals of Blockchain Technology**

- Introduction
- History of Blockchain
- Data & Databases
- Networks & Protocols
- Ledgers
- Cryptographic Fundamentals
- Consensus

**Module 2: Blockchain Deployment Patterns**

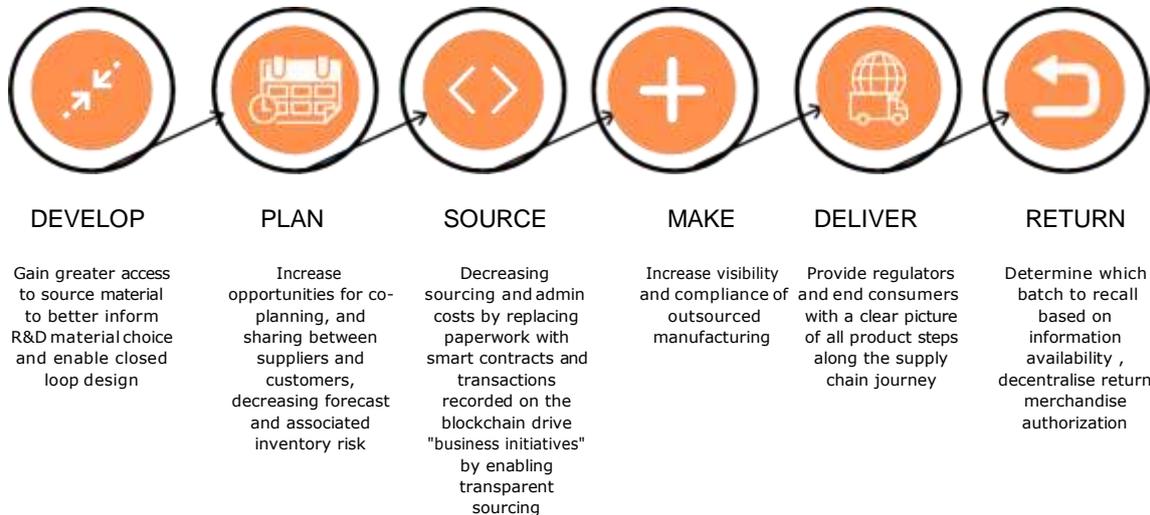
- Introduction
- Deployment Patterns
- Social Dimensions
- Blockchain in IT Infrastructure
- Public & Managed Blockchain Protocols

**Module 3: Smart Contracts**

- Introduction
- Paper to digital contracts
- What is a smart contract?
- Contract Dimensions
- Legal Considerations
- Security Challenges & Measures
- Smart contract platforms
- Smart Contract Implementation
- Ricardian Contracts & Smart Contracts
- Practice: Deploy a Smart Contract

Blockchain driven innovations in the supply chain will have the potential to deliver tremendous business value by increasing supply chain transparency, reducing risk, and improving efficiency and overall supply chain management.

#### DRIVING VALUE IN THE SUPPLY CHAIN



#### Module 4: The Potential of Blockchain in Production

- Introduction
- Blockchain in Production & Operations
- Use Cases
- Challenges to Blockchain Adoption & Implementation in Production & Operations



#### Module 5: The Possibilities of Blockchain in Supply Chain Management

- Introduction
- Blockchain in Supply Chain Management
- Use Cases
- Challenges to Blockchain Adoption & Implementation in Supply Chain Management



#### Module 6: Pain points for the Supply Chain

- Inefficiencies
- Sourcing and inventory controls
- Product Traceability
- Procurement / Long Cycle Times
- Compliance
- Logistics / Coordination
- Operations / Inventory and warehouse management
- Opacity
- High costs
- Shipment visibility
- The supply chain is broken



## **Module 7 : How can Blockchain Help Supply Chains**

- Verify Authenticity
- Transparency and Security
- Increased efficiency
- Agreements and Contracts
- Regulatory and Compliance
- Cyber Security
- Change management



## **Module 8 : Use case examples of how blockchains are being used in supply chains today**

- Agri
- Automotive
- Fashion
- Food & Beverage
- Healthcare
- Insurance
- Maritime
- Pharma
- Power and Energy
- Oil and Gas



## **Module 9 : Compliance and Regulatory Environment**

- Blockchain Regulatory Environment
- Overview of Blockchain Regulation
- Compliance and Legal Issues



## **Module 10 : Barriers to Adoption**

- Existing Supply Chain solutions
- Siloed systems
- No established data standards and management
- Wait and see mentality
- What will motivate change



## **Module 11: How to prepare an enterprise for blockchain**

- Evaluation and Challenges
- Activity: Identify a use case that would be impactful to an enterprise for a given situation
- Acceptance and Action Plan
  - Plan
  - Source
  - Make
  - Deliver
  - Return



## **Module 12 : Integration of Blockchain with Supply Chain**

- Supply Chain Management & Blockchain Integration Overview
- Supply Chain Management Traditional Architecture
- Supply Chain Management Blockchain Architecture
- Blockchain Deployment Stages
- Use cases



## **Module 13 : Future Ethics & Implication of Blockchain Technology**

- Introduction
- Immutability
- Neutrality
- Decentralisation
- Research & Development
- Challenges to Blockchain Adoption & Implementation



## **Module 14 : Capstone Project**

- Case Studies
- Build a Blockchain Supply Chain Prototype

### **S P E C S**

1. Total Number of Hours : 200
2. Certification : Yes
3. Certification Body: FTI, Canada
4. Course Inclusions:
  - ◊ Curriculum
  - ◊ Videos
  - ◊ Powerpoint Presentations
  - ◊ Assessments & Quizes
  - ◊ Live Projects
  - ◊ Mentorship
  - ◊ Industry Academia Interactions
  - ◊ Internship Opportunities
  - ◊ Placement Assistance



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