



ANNA UNIVERSITY AU TVS CENTRE FOR QUALITY MANAGEMENT

Certified Program in Blockchain Technology & Management

4 Months | Weekend Learning | Projects & Case Studies |

An exhaustive Blockchain program designed to produce super-qualified leaders in this emerging technological transformation space.



LucasTVS
DRIVEN 

TVS Sundaram-Clayton Limited

TVS Sundram Fasteners Limited

Time: 9.30 am – 5.00 pm

Venue: AU TVS CENTRE FOR QUALITY MANAGEMENT, ANNA UNIVERSITY (Behind Vivekananda Auditorium, Anna University)

Contact

+91-44-2235 – 8555 / 8623 / 8552 / 2047

Mobile No. + 91 9498 402506 (What's App Available)

website: cqm.annauniv.edu / www.annauniv.edu

Enquiry: Kindly email your query with your phone number to autvscqm@annauniv.edu / autvscqm2015@gmail.com

Module I

Introduction to Blockchain

- ✓ Risks being faced by individuals and companies with examples
- ✓ The future of man to man and man to machine interactions and the potential risks associated with the same
- ✓ Real world use cases which manifest the above risks in Finance, Real Estate, Sales & Distribution, Supply Chain, Identity, Employment portals, any and all exchanges in operation
- ✓ Distilling the problems that need solution
- ✓ What are elements of the system that can solve these problems? (Centralisation/Hashing/Smart Contracts/Decentralization)
- ✓ Establishing the Need of Blockchain for: Trustless, Peer to Peer Distributed ledger technologies that can stand test of time
- ✓ Decentralized versions of the current real world leading organizations and case studies

MODULE II

Basics of the Blockchain

- ✓ History of Bitcoin: Byzantine Generals' problem, solution development and implementation without single point of failure
- ✓ Basics of Blockchain: Peer to peer, secure without single point of failure, achieving consensus
- ✓ Delving deeper into Immutability, Hashing, Cryptography Consensus, Distributed ledger technology
- ✓ Expansion of related and relevant technologies: Database, Networking & Cloud, Security, Programming, Virtualization, Operating systems, Micro-services and Scalable architecture, Docker, Virtualisation etc.
- ✓ Architecting and coding the Bitcoin Blockchain
- ✓ Setting up Blockchain on two nodes and interacting with it
- ✓ Fundamental programming concepts including Linux, CLI, Node.js, IBM/Azure/Amazon cloud, Java script, HTML5, CSS etc.

MODULE III

- ✓ Cryptocurrencies and Allied Business ecosystem of Blockchain Study how all the features and requirements described before are implemented in Bitcoin Blockchain
- ✓ Bitcoin & Cryptocurrencies: Bitcoin White paper discussion
- ✓ Bitcoin salient features
- ✓ Mining, Wallets, Exchanges
- ✓ Salient features and Demo, visual explanation
- ✓ Bitcoin Blockchain's safety & security and how it can be handled
- ✓ Potential attacks & failure chances and how they are handled
- ✓ Issues with Bitcoin Blockchain and alternate variations across currencies & Applications etc.

MODULE IV

Public Blockchains & tokenization of assets

- ✓ Study and analyse Ethereum
- ✓ Programming in Solidity
- ✓ White and yellow papers
- ✓ DAO, DAPPs
- ✓ Creating applications in Ethereum
- ✓ Create ERC 20 tokens, Voting, Betting, Revenue sharing apps
- ✓ Study 10 successful DAPPs by analyzing their whitepapers
- ✓ ICOs, Tokenomics and asset tokenization, Top 10 B2C applications globally

MODULE V

Alternate Public, Federated and Private Blockchain and comparisons

- ✓ Alternate Chains: Ripple, EOS, Chain, Dragonchain, Multichain, Quorum, R3Corda Lisk, Ark, BigChain DB, Fluree
- ✓ Study whitepapers, download clients and create instances in at least 5 of the above
- ✓ At least 1 use case in all of the above with examples

MODULE VI

Enterprise Blockchain Applications

- ✓ Programming in GoLang
- ✓ Microsoft BAAS, Coco Framework
- ✓ Hyperledger - Fabric, Sawtooth, Composer, Indy, Iroha, Burrow
- ✓ Use cases, architecting and implementing solutions
- ✓ Chain code implementation and use case examination & evaluation
- ✓ Hands-on for Fabric, Sawtooth and study Iroha
- ✓ Which Blockchain/DLT application for what needs
- ✓ DMADV approach to development

MODULE VII

New generation Technology paradigms and their integration with Blockchain

- ✓ Top global companies and their work in Blockchain Technology
- ✓ Top Blockchain innovations and emerging companies
- ✓ Blockchain ecosystem
- ✓ New developments in Blockchain technologies and looking forward
- ✓ Interaction with new technologies such as IoT, Big Data, Data Science & Analytics etc.
- ✓ Process excellence and Mistake proofing requirements

Program Details

Key Program Takeaways, You will be able to:

- ✓ Possess the in-demand skills to play an active role in Blockchain revolution
- ✓ Understand key features, different types of platforms & Languages of Blockchain Technology
- ✓ Know how to launch Blockchain in a single node and extend to multiple nodes using BAAS architecture
- ✓ Enable better strategic business decisions and develop solutions to real-life case studies
- ✓ Be able to confidently use Blockchain Technology in conjunction with other bleeding edge technologies in the domains of Big Data, Artificial Intelligence, Machine Learning, Analytics & IOT.

What Is Eligibility Criteria

- ✓ If you have 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.
- ✓ Also, minimum of two years full-time work experience after graduation or post-graduation is required.

Who You Will Learn From

Our group of world-class resources have long periods of experience as expert mentors and have worked intimately with Blockchain adopters crosswise over different divisions. Their industry presentation will empower you to comprehend the ordinary bare essential to be an effective Blockchain proficient.

Admission 1. Restricted to 20 on First Come First Serve Basis.
2. Last date of Registration **10-December-2018**.

Certificate will be awarded to all participating delegates.

Scheduled Date

| December'18 | | | | January'19 | | | | | February'19 | | | | | | | March'19 | | | | | | | |
|-------------|----|----|----|------------|---|----|----|----|-------------|---|---|---|----|----|----|----------|----|---|---|---|----|----|----|
| 22 | 23 | 29 | 30 | 5 | 6 | 19 | 20 | 26 | 27 | 2 | 3 | 9 | 10 | 16 | 17 | 23 | 24 | 2 | 3 | 9 | 10 | 16 | 17 |

PAYMENTS DETAILS

Course Fee: ₹ 36,000/-

Includes professional fee (Exclusive of TDS), Course Kit, Lunch & refreshments, Certificate, etc.

- ✓ **Special Concession 10% discount for AU TVS CQM program certificate holders with certificate copy.**

Payment can be made by cheque / DD in favour of "**AU TVS Centre for Quality Management**" and sent through courier or in person.

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Delegate Registration Form

Certified Blockchain & Management Program

Name (Mr. / Ms.) :

Name of the Organization :

Designation :

Specify your identity document enclosed :

(Company ID /Pan Card/ Voters Id/ Passport/ Driving License/Aadhar card)

Products/Service of the Organisation :

Academic Qualification :

Experience. (Years) :

Address (Residence/Company) :

Telephone :

Mobile :

E-Mail :

AU TVS CQM program certificate holders : Yes / No
(Enclose certificate copy)

Payment can be made by cheque / DD in favour of "**AU TVS Centre for Quality Management**" and sent through courier or in person.

Enclose the Cheque / DD No. :

Amount : Date: Bank:

Signature with date

To:
The Director,
AU TVS Centre for Quality Management,
Anna University, Chennai – 600 025.