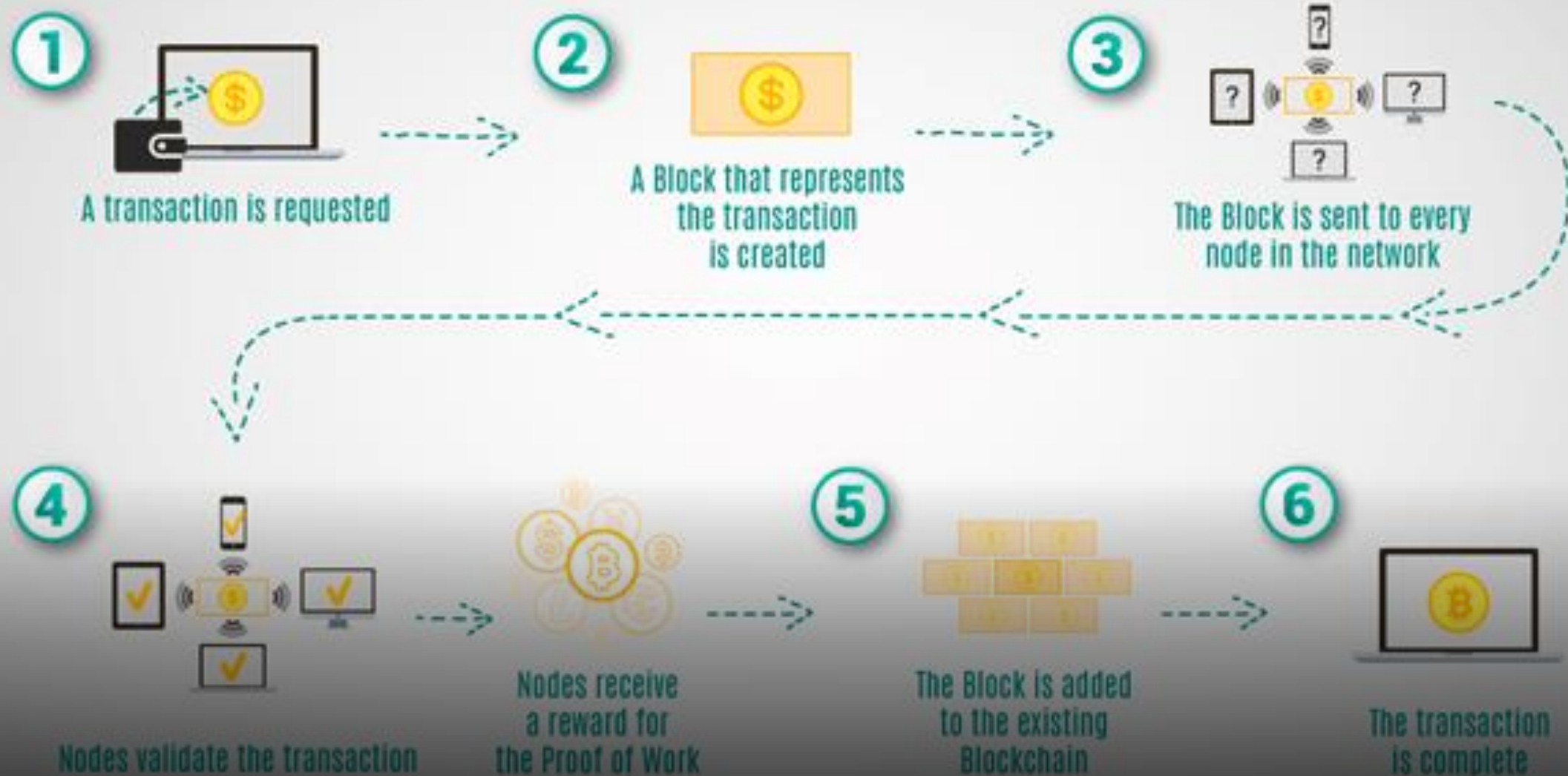


Blockchain Roadmap

Enamul Haque

HOW BLOCKCHAIN WORKS



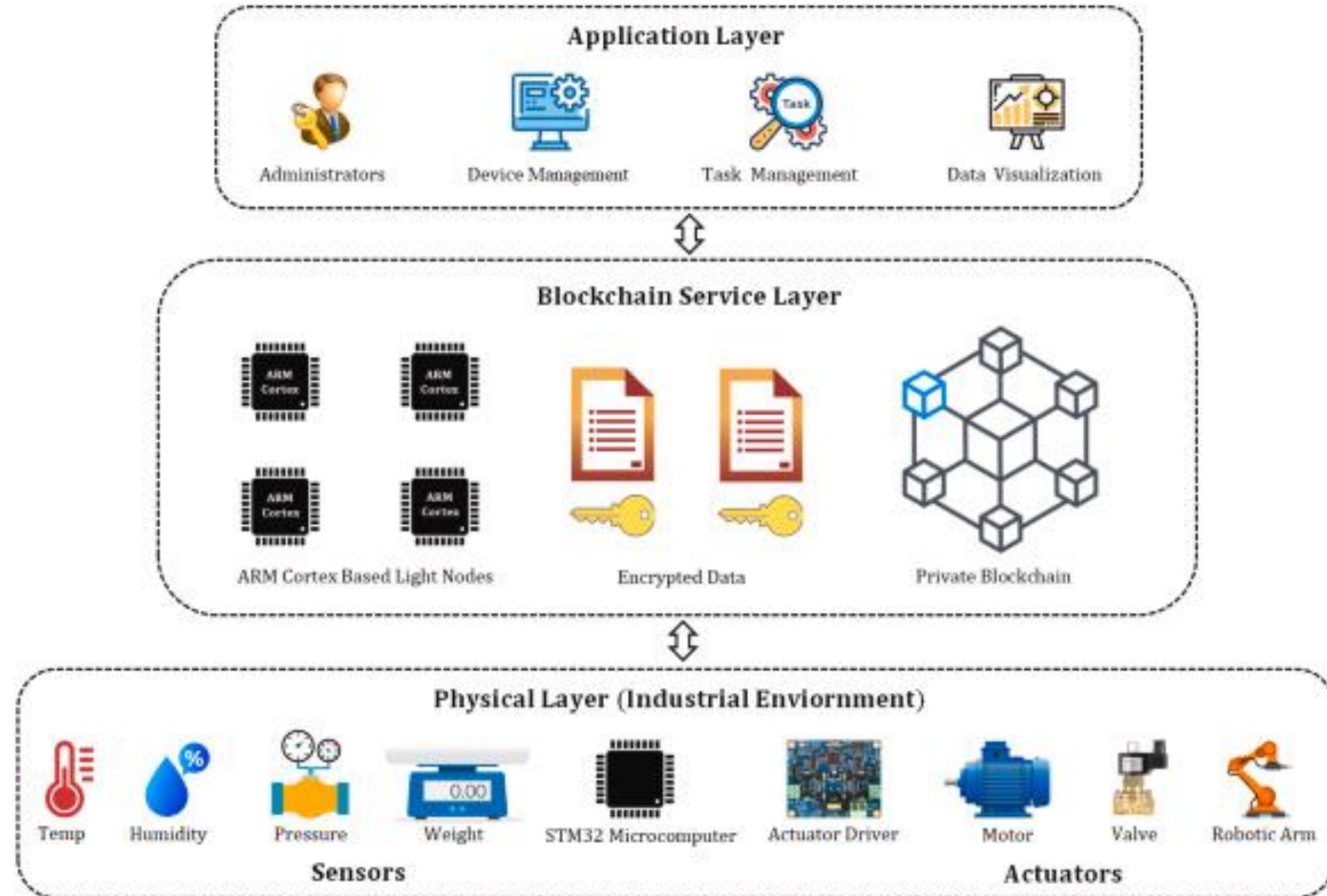
Blockchain Architecture

There are two main types of developers in this technology:

- 1. Core developers**
- 2. App developers**

Core developers: In core development, the developer writes the code for a blockchain client. C, C++, Golang and Rust used for it. In core development, you need to know the operating system of a computer, file system, and networking.

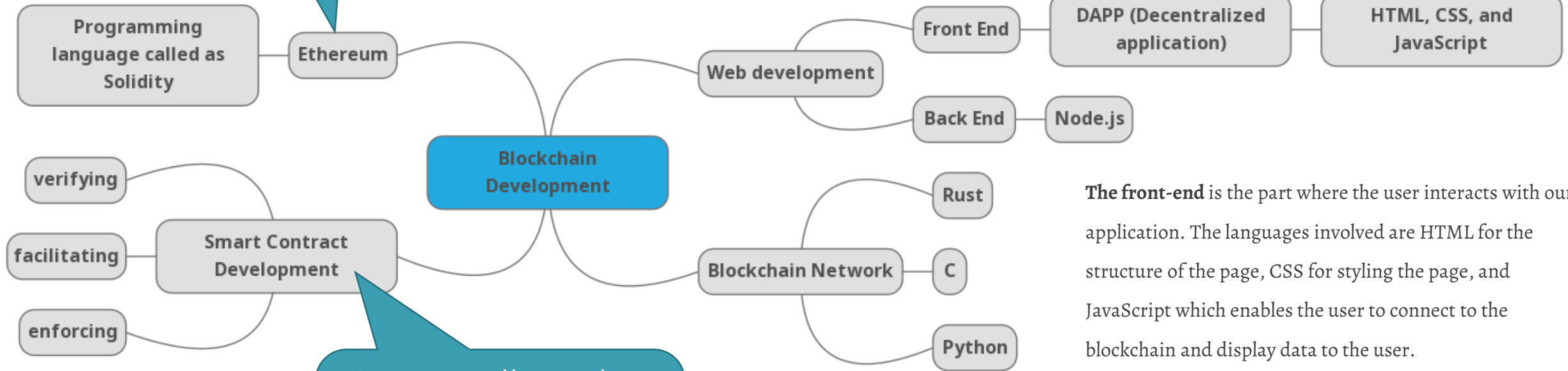
App developers: Blockchain app development is what most blockchain developers do e.g. build web applications on top of web browsers



WHY SHOULD YOU GO FOR A BLOCKCHAIN CAREER?



Ethereum is a decentralized, open-source blockchain with smart contract functionality. Ether is the native cryptocurrency of the platform. Amongst cryptocurrencies, Ether is second only to Bitcoin in market capitalization.



Smart contracts enable you to exchange anything of value while also eliminating the middle man and thus you get a fair deal. In the physical world, the process of buying land you would need a lawyer, whom you pay for their services first, to obtain and notarise the land transfer documents.

There are a couple of programming languages used in writing a smart contract but the most popular one is Solidity.



The front-end is the part where the user interacts with our application. The languages involved are HTML for the structure of the page, CSS for styling the page, and JavaScript which enables the user to connect to the blockchain and display data to the user.

Back-end: For the back end, it is advantageous to learn Node.js, which is JavaScript but on the server-side. What makes Node.js suitable is the NPM package manager. It enables you to install dependencies and tools for blockchain development.

BLOCKCHAIN DEVELOPER/ ENGINEER CAREER PATH



01

Programming /
Scripting Language



02

Version Control &
Management Tools



03

Web Development
Skills



04

Database Related
Knowledge



05

Cryptocurrency &
Blockchain Fundamentals



06

Blockchain Distributed
Computing Platform



07

Container & Container
Management Tools



You are now a



Blockchain Developer/
Engineer

edureka!

WHAT ARE THE DIFFERENT CAREER PATHS IN BLOCKCHAIN?

Future of Blockchain is bright and playing an essential role in everyday life and businesses and continually growing.



Blockchain App Developer

Roadmap

2022

D-App Developer

WEB DEVELOPMENT

- Learn Basic Web Development
- HTML , CSS , JAVASCRIPT
- General Development Skills (Git/GitHub , Basic Terminal Usage, HTTP/HTTPS Protocol)

Ethereum

- Ethereum Virtual Machines (EVMs)
- Ethereum Networks (MainNet , TestNet)
- Learn About Wallets , Addresses , gas , private and public keys
- Ethereum Transactions using wallets like metamask
- Ethereum Clients/Nodes

Build Tools

- Solidity

IDE's

- Remix IDE
- ETHFiddle

INFURA

- MainNet

Backend

- Ethereum EVM

Learn the Basics

- Blockchain
- Learn Basics of Distributed Ledger (DLT)
- Bitcoin Paper
- Elliptic Curve Cryptography

Smart Contracts

- Basics of Smart Contracts
- Ethereum High Level Languages
- Life Cycle of Smart Contracts
- Compiling ,Testing and Deploying Smart Contracts
- Interacting With Deployed Smart Contracts.

Package Managers

- npm

Frameworks

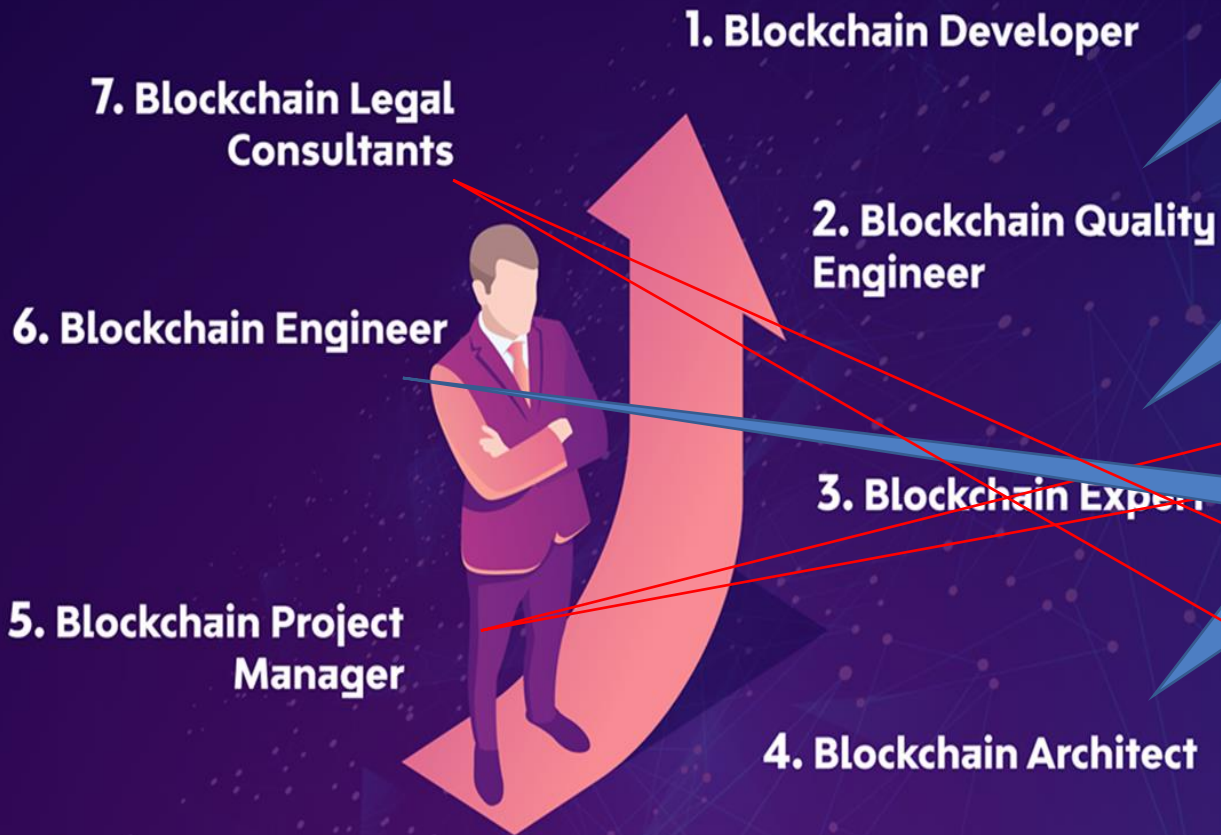
- Truffle
- Solidity and Ganache

Distributed Storage

- IPFS
- SWARM

WHAT ARE THE DIFFERENT CAREER PATHS IN BLOCKCHAIN?

Future of Blockchain is bright and playing an essential role in everyday life and businesses and continually growing.



A blockchain quality engineer is responsible for developing automation frameworks, manual testing, and testing for glitches and bugs.

Blockchain expert is someone who understands how all of the blockchain platforms work, is a master of programming languages and can integrate solutions in enterprise businesses with enterprise blockchain solutions.

Blockchain architects plan and design the construction and development of blockchain architecture

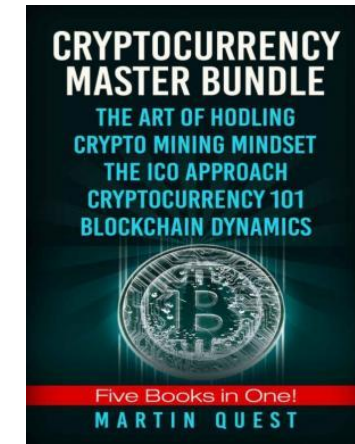
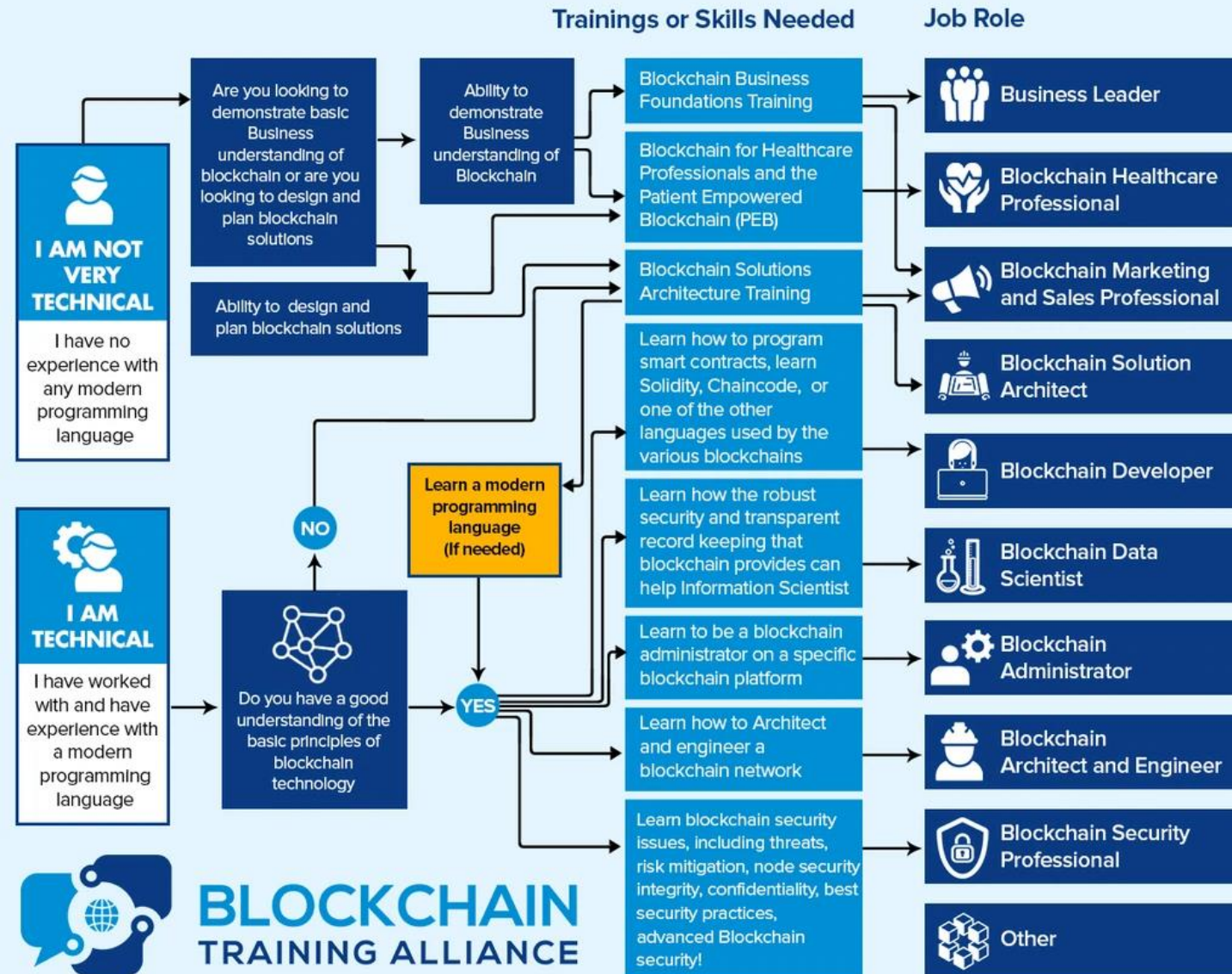
Evaluate and monitor project portfolio. Performs regular project analysis and make recommendations. Lead programs and projects across the global business.

Blockchain engineers meaning basically is like implementing and creating digital blockchain for enterprise solutions. Typically, blockchain engineers may work for technology consulting firms or data service firms. In reality, it's a full-time job.

Our blockchain lawyers draw on substantive backgrounds in financial services and banking, real estate, gaming, taxation, intellectual property, mergers and acquisitions, data security, anti-money laundering, corporate law and insurance.

BLOCKCHAIN CAREER PATHS

For Both Technical and Non-Technical Professionals




Top Certifications in Blockchain

1. Blockchain Certification Course (CBP) — EC Council
2. Blockchain For Business 2021 — Udemy
3. Certified Blockchain Expert — Blockchain Council
4. P. G. Diploma in Blockchain Technology — UpGrad
5. Blockchain A-ZTM: Learn How To Build Your First Blockchain — Udemy
6. Certified Enterprise Blockchain Architect (CEBA) — 101 Blockchains
7. Blockchain Technology — EdX

Blockchain Certification Roadmap



All Certification is delivered globally at Pearson VUE

 Foundations	 Solution Architect	 Developer	 Security
Demonstrate business understanding of Blockchain	Ability to design and plan Blockchain solutions	Can develop and code Blockchain	Understand Blockchain security issues and best practices
 Training Blockchain Overview: Business Foundations ✓ Instructor-led ✓ On Demand	 Training Blockchain Architecture ✓ Instructor-led ✓ On Demand	  Training Ethereum: Hands-on Development Bootcamp Hyperledger: Developing on Hyperledger Fabric ✓ Instructor-led	 Training Blockchain Security ✓ Instructor-led ✓ On Demand
Certification	Certification	Certifications	Certification
Certified Blockchain Business Foundation (CBBF)	Certified Blockchain Solution Architect (CBSA)	Certified Blockchain Developer Ethereum (CBDE) Certified Blockchain Developer Hyperledger (CBDH)	Certified Blockchain Security Professional (CBSP)