



## **Technocation Freelancing Training Institute And Software House**

### **Web 3.0 Certification Module**

#### **MODULE 1: Introduction to Web 3.0**

- Web 1.0 was “Read Only” websites.
- Web 2.0 is “Read and Write” with social media.
- Web 3.0 is “Own and Control” the internet.
- It is built on decentralization and privacy.

#### **MODULE 2: Blockchain Basics**

- Blockchain is a chain of digital blocks.
- Each block stores information safely.
- Everyone can see but no one can change it.
- It makes Web 3.0 secure and transparent.

#### **MODULE 3: Cryptocurrency Overview**

- Cryptocurrency is digital money.
- It works without banks or middlemen.
- Bitcoin and Ethereum are examples.
- It is stored in digital wallets.

#### **MODULE 4: Smart Contracts**

- Smart contracts are programs on blockchain.
- They run automatically when rules are met.
- No middleman is needed.
- They make deals faster and fairer.

#### **MODULE 5: NFTs (Non-Fungible Tokens)**

- NFTs are digital assets with ownership.
- They can be art, music, or game items.
- Each NFT is unique and cannot be copied.

- They are stored on blockchain.

## **MODULE 6: Decentralized Apps (DApps)**

- DApps run on blockchain, not on servers.
- They are open, transparent, and safe.
- No single company controls them.
- Examples: Crypto games, wallets, exchanges.

## **MODULE 7: Decentralized Finance (DeFi)**

- DeFi is like banking without banks.
- You can lend, borrow, or invest.
- It works with smart contracts.
- It gives more control to users.

## **MODULE 8: DAOs (Decentralized Autonomous Organizations)**

- DAO is like a digital company.
- Members vote to make decisions.
- Rules are coded into blockchain.
- It is transparent and community-driven.

## **MODULE 9: Web 3.0 and the Metaverse**

- Metaverse is a 3D digital world.
- Web 3.0 powers it with ownership.
- NFTs and crypto work inside it.
- It mixes real and virtual life.

## **MODULE 10: Web 3.0 and Cloud Computing**

- Web 2.0 uses centralized cloud servers.
- Web 3.0 uses distributed storage.
- No single company owns the data.
- It gives more privacy and freedom.

### **MODULE 11: Security and Privacy in Web 3.0**

- Web 3.0 gives control of personal data.
- Users own their online identity.
- Data is encrypted and protected.
- Less risk of hacking or misuse.

### **MODULE 12: Careers and Opportunities in Web 3.0**

- Jobs in blockchain, NFTs, and AI.
- Opportunities in gaming and metaverse.
- Demand for developers and designers.
- Business models are changing fast.

### **MODULE 13: Certification Module**

- Create a small Web 3.0 project idea.
- Show how blockchain or NFTs can be used.
- Present your idea to mentors or peers.
- Get your Web 3.0 Professional Certificate.

+92 308 514 5822

[www.technocation.pk](http://www.technocation.pk)

info@technocation.pk

