Training Course on Blockchain Applications in Construction and Supply Chain

Professional Development Training Course Outline

Category	Civil Engineering and Infrastructure Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The traditional construction and supply chain industries are often characterized by inherent complexities and persistent challenges, including a notable lack of transparency, susceptibility to fraud, cumbersome and inefficient payment processes, and fragmented data management. In this landscape, Blockchain technology emerges as a revolutionary solution, offering a decentralized, immutable, and transparent ledger system designed to address these long-standing issues. By fostering greater trust, enhancing seamless collaboration, streamlining intricate workflows, significantly improving data integrity, and effectively reducing disputes across multi-party environments, blockchain has the profound potential to transform the entire ecosystem—from the initial sourcing of materials and meticulous project execution to complex financial transactions and comprehensive asset lifecycle management.

Training Course on Blockchain Applications in Construction and Supply Chain is meticulously designed to provide participants with a comprehensive understanding of the practical applications and strategic implementation of blockchain technology specifically within the construction and supply chain sectors. The curriculum will cover foundational blockchain concepts, including distributed ledgers, consensus mechanisms, and cryptography. Participants will master the intricacies of smart contracts for automated agreements and payments, explore the burgeoning field of decentralized finance (DeFi) in construction, and learn to leverage blockchain for unparalleled supply chain traceability, verifiable material provenance, and robust sustainable sourcing practices. Through a balanced blend of essential theoretical foundations and hands-on exercises, this course will prepare attendees to confidently identify, critically evaluate, and effectively deploy blockchain-based solutions to enhance transparency, optimize efficiency, and build enduring trust in their construction and supply chain operations.

Programme Curriculum