PROG 100 Introduction to Smart Contract

MICROCREDENTIAL AWARDED TO

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Specific Learning Objectives:

Define the principles of smart contracts, including HRC20, ERC20, and BEP20 (Knowledge). Create and deploy HRC20, ERC20, and BEP20 tokens on various blockchain platforms (Application). Compare and contrast the differences between Metamask and HTML-QT Wallet (Analysis). Evaluate the security and efficiency of smart contracts in various industries (Evaluation). Develop strategies for optimizing smart contract performance (Synthesis). Analyze the impact of smart contracts on businesses and society (Analysis). Implement best practices for smart contract development and deployment (Application). Identify potential challenges and limitations of using smart contracts in real-world scenarios (Analysis). Design a custom smart contract solution to address a specific industry problem (Synthesis). Demonstrate effective communication and collaboration skills in a team setting (Interpersonal). Critically assess the ethical implications of smart contract implementation (Evaluation). Stay up-to-date with the latest trends and advancements in smart contract technology (Lifelong Learning). Optimize smart contract code to enhance performance and minimize resource consumption (Synthesis). Understand and comply with legal and regulatory frameworks surrounding smart contracts (Knowledge).

In partial fulfillment of the requirements for the nanodegree of

Blockchain Studies (CSC - BSTUD)

(4.5 Clock Hours) (80% Passing Score)

1 Sep 2023

Verification ID: **64f1b5bcfc6f3c8e2d03c54c**

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