

# Ethereum Solidity Smart Contracts

## Module 1: Introduction

Web 3.0

Blockchain

## Module 2: Ethereum

What is Ethereum?

Accounts

Gas and Payments

Transactions

Block Details

Transaction Execution

Contract

Ethereum Virtual Machine & Gas

Mining

Soft Fork and Hard Fork

Decentralized Application(Dapp)

Dapp Architecture

Decentralized Autonomous Organization(DAO)

Initial Coin Offering(ICO)

Challenges for Ethereum

Future of Ethereum

## Module 3: Solidity

What is Solidity?

Lifecycle of Smart Contract

Development Environment

Programming with Solidity

Data Types

Predefined Global Variables and functions

Transaction/message call context

Transaction Context

Block Context

Address Object  
Build in functions  
Functions  
Function Modifiers  
Contract Inheritance  
Error Handling  
Events

## **Module 4: Web3.js**

What is Web3.js?  
Getting Started  
Talking to Contracts  
Calling Contract Functions  
Calling Payable Functions  
Subscribing to Events

## **Module 5: Building Dapp**

Project 1  
Project 2

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